POPULAR

SPECIAL BOAT SHOW ISSUE

BOATING

WORLD'S LARGEST SELLING BOATING MAGAZINE

FEBRUARY

$1.00

COMPLETE BUYING GUIDE AND MARINE DIRECTORY

NEWEST-

- INBOARDS
- OUTBOARDS
- SAILBOATS
- ENGINES
- TRAILERS
- HARDWARE
- ACCESSORIES

FULLY ILLUSTRATED LISTINGS LATEST MODELS AND PRICES

Finest new fleet afloat... Chris

CHRIS-CRAFT CORPORATION PROUDLY PRESENTS the most exciting new line of pleasure craft in boating history! Brilliant new models... beautiful new styles... breathtaking new performance!

"FUN" BOATS, EVERY ONE—fast, spirited, easy to handle—your "open sesame" to the best in wat pleasure, be it fishing, water skiing, exploring out-of-the-way places, or just plain cruising!

IT'S THE WORLD'S MOST COMPLETE MOTOR BOAT LINE—from action-packed sports boats to stately 66-ft. motor yachts. Wide range of prices, some unbelievably low, all completely sensible. Power options include great new Chris-Craft V8's. And you can buy on easy budget terms! Get i on the fun—get aboard a 1960 Chris-Craft; see your dealer or write for free literature without delay!

CHRIS-CRAFT CORPORATION, POMPANO BEACH, FLORIDA
Chris-Craft • Chris-Craft Cavaliers • Chris-Craft Sea Skiffs

Magnificent new 66-ft. Constellation is the ultimate in modern motor yachts, provides complete luxury extended-cruising accommodations for

Craft 1960

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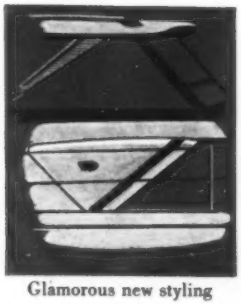
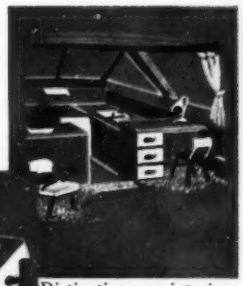
Get in
!



Glamorous new styling

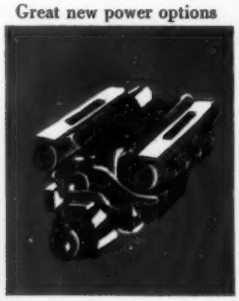
Sleek new "clipper" bows



Distinctive new interiors

Smart new control centers

Great new power options



OPEN THIS FOLD for a preview of the *great* new boats the world's largest motor boat builders have ready for you!

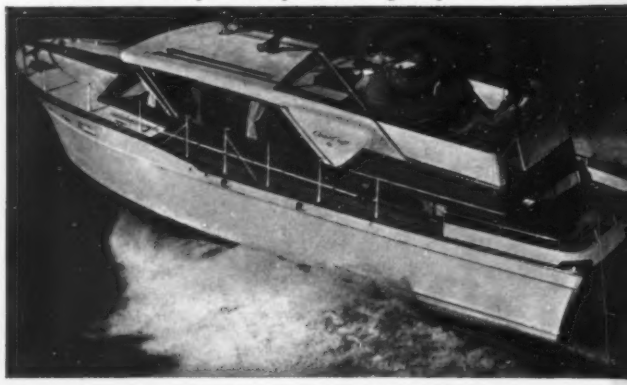
ns for ten.

© 1960, Chris-Craft Corp.

There's a CHRIS★CRAFT boat

New 18-ft. Continental seats six, gives speeds to 40 mph ($83 per month).

New 40-ft. Conqueror sleeps 8; twin engine options to 550-hp.



Left to right, new 27-ft. Constellation ($139 per month), new 33-ft. Sport Fisherman ($333 per month), new 55-ft. Constellation, new 17-ft. Sportsman ($69 per month).

t for every need ... every price range

ft 1960 Chris★Craft CAVALIERS

YOURS FOR AS LITTLE AS $59* PER MONTH!

Lively, handsome, quality-built craft just *made* for family boating fun — and wait till you see how far your boat-buying dollars stretch! Flashing sports boats for real over-water action! Big, roomy family cruisers—23-ft., 25-ft., 30-ft.—with modern galleys, dinettes, comfortable berths, scores of luxury features for all-around family fun and living afloat! Thrifty, dependable inboard power, too, featuring new Chris-Craft V8's! *Now's* the time to go Cavalier, boating's value leader! See your dealer, ask about his budget-pleasing payment plan...or write today for free literature!

Cavalier Division • CHRIS-CRAFT CORPORATION, POMPANO BEACH, FLORIDA
World's Largest Builders of Motor Boats

New 25-ft. Custom Cruiser has extra-big flush-deck cockpit.

Front to rear, *18-ft. Sports Utility ($59 per month), 25-ft. Express Cruiser ($99 per month), 30-ft. Express Cruiser ($139 per month).

...every family!

ALL NEW 1960 Chris★Craft SEA SKIFFS

Presenting the smartest, fastest, most comfortable boats yet to come from the world's largest builders of sea skiffs! Models from 18-ft. through 40-ft....agile open utilities, versatile over-nighters, sleek sport fishermen, full-fledged cruisers! Completely new boats, "at home" in salt or fresh water, built for ruggedness and easy maintenance!

Round-bilge, full lapstrake construction for unmatched seaworthiness! New hull designs...new interiors and arrangements...stepped-up power options, including new Chris-Craft V8 engines! And the prices are *low;* easy budget terms, too! See these value-packed beauties now at your Sea Skiff dealer's, or write for free literature today!

Sea Skiff Division • CHRIS-CRAFT CORPORATION, POMPANO BEACH, FLORIDA

World's Largest Builders of Motor Boats

New 40-ft. Hardtop with optional fishing bridge.

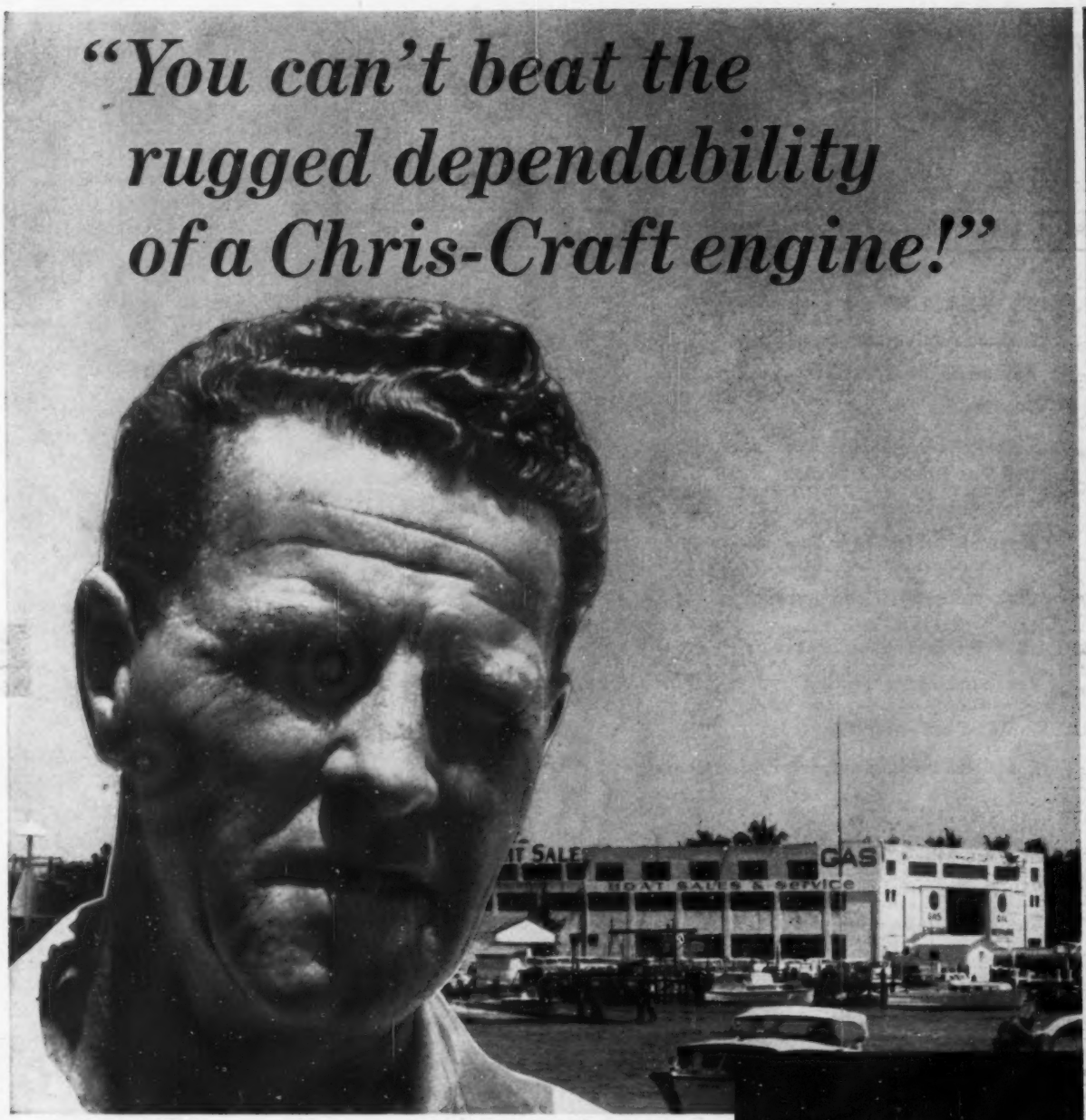
New 32-ft. Hardtop Cruiser sleeps 6; gives speeds to 33 mph.

New 18-ft. Open seats 6; speeds to 31 mph; $49 per month.

Left to right, 23-ft. Ranger ($99 per month), 20-ft. Open ($69 per month), 36-ft. Hardtop Cruiser.

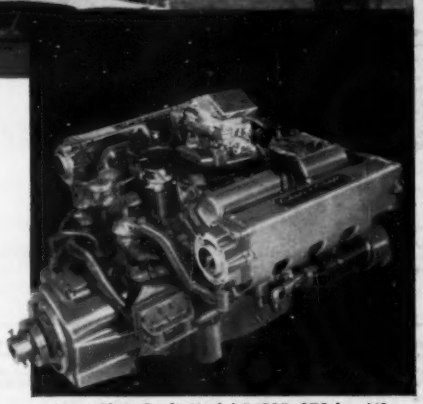
Men who know marine engines best agree:

"You can't beat the rugged dependability of a Chris-Craft engine!"



Arthur "Red" Mooy, superintendent at the Dinner Key Division of Merrill-Stevens Dry Dock Co., Miami, Fla., is a man who's lived with boats for 25 years. Chris-Craft Marine Engines are his first choice for performance and economy...first, too, with a big majority of his customers who, says Red, "get far better service and have much less trouble than operators of any other marine engines."

Chris-Craft V8's deliver more horsepower per pound than any other marine engine. They're built to last and are economical to buy and operate. See your Chris-Craft dealer or write for free literature today!



New Chris-Craft Model "430", 275 hp. V8, delivers the highest horsepower per pound of any engine in its class, yet it's lowest in price.

Chris-Craft MARINE ENGINE DIVISION

CHRIS-CRAFT CORPORATION • POMPANO BEACH, FLORIDA

World's Largest Builders of Motor Boats

POPULAR
BOATING
THE MAGAZINE FOR BETTER BOATING

FEBRUARY, 1960
VOLUME 7, NUMBER 2

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SUBSCRIPTION SERVICE: Forms 3579 and all subscription correspondence should be addressed to Circulation Department, 434 South Wabash Avenue, Chicago 5, Illinois. Please allow at least four weeks for change of address. Include your old address as well as new—enclosing if possible an address label from a recent issue.

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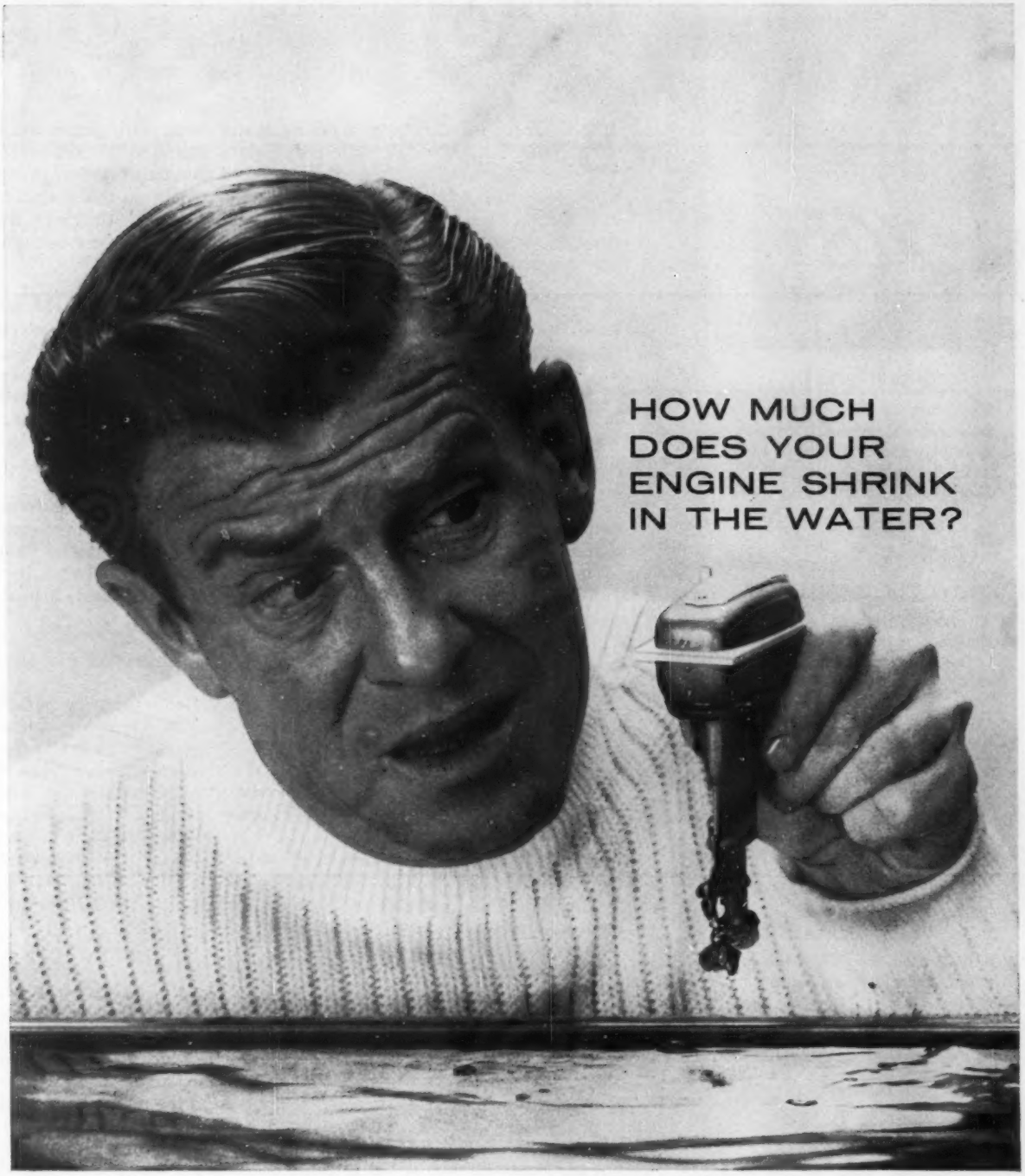
POPULAR BOATING is published monthly by the Ziff-Davis Publishing Company, William B. Ziff, Chairman of the Board (1946-1953), at 434 South Wabash Avenue, Chicago 5, Illinois. Second class postage paid at Chicago, Ill. POPULAR BOATING subscription rates: U.S. and Canada—1 year $5; 2 years $9, 3 years $12. Pan American countries add 50c per year. All other foreign subscriptions add $1 per year. Single copy 50c.



A 25% loss of power is not uncommon if your propeller isn't properly matched to your boat, engine and use. But a Columbian "Customized" prop can make your engine "full-size" again. It's engineered to completely convert high engine torque into full usable thrust.

So see your Columbian Dealer soon and consult his Outboard Propeller Selector. It automatically shows the right prop for your boating rig.

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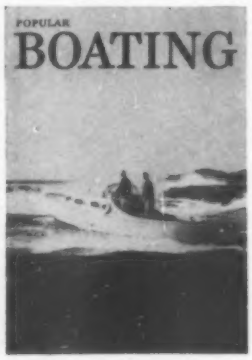
NEXT MONTH



SURF BOAT

The story of the Bartender, a new inboard or outboard powered plywood craft that can successfully run rough water for offshore fishing, cruising, or Coast Guard work.

•

NEW CUP CHALLENGER

An exclusive interview with the designer of the next British boat to be built for America's Cup challenge.

•

CHICAGO DREAMBOAT

Lavished on this Newporter sailing Lake Michigan is every accessory to make the perfect boat —the topside and inside story.

•

FISH VS. FEMALE

A first mate's report of the fun and foibles while learning to fish.

•

ANN DAVISON BOATING THE GULF

•

TEST OF AN OFFSHORE OUTBOARD

•

SEAMANSHIP— HERE'S HOW—NEWS

•

PLUS: ALL REGULAR DEPARTMENTS, COLUMNS AND FEATURES.

FROM THE EDITOR—

BOATING—1960

BOATING for the new year is now in full swing across the country. While southern sailors are cruising and racing in the sun, northerners are crowding boat shows for a vicarious preview of the summer months to come. For boatmen everywhere on this continent and abroad, we present as special editorial feature in this issue the Boat Show Buying Guide Directory, a reference book for use throughout the year.

Study of the thousands of listings starting on page 133 will present a detailed picture of the growth of the sport and its newest developments. Every boatman will find here boats and accessories he has not seen before. Trends indicate increased production of fiberglass craft, lapstrake seaskiff and catamaran designs, engines with higher horsepower, epoxy paints, electronic aids, more durable hardware and accessories. Both boats and equipment are better, safer, and more reliable this year than ever before.

The diversity of models available, however, indicates once more that there is no one perfect boat design for all waters, no miracle material for building. Once again wood, fiberglass, and metal have all been formed into outstanding craft. Boat selection, as always, provides a chance to select the product that most closely meets a boatman's needs, and his feeling for beauty of line as well.

Every reader can use this month's Directory in his own way:

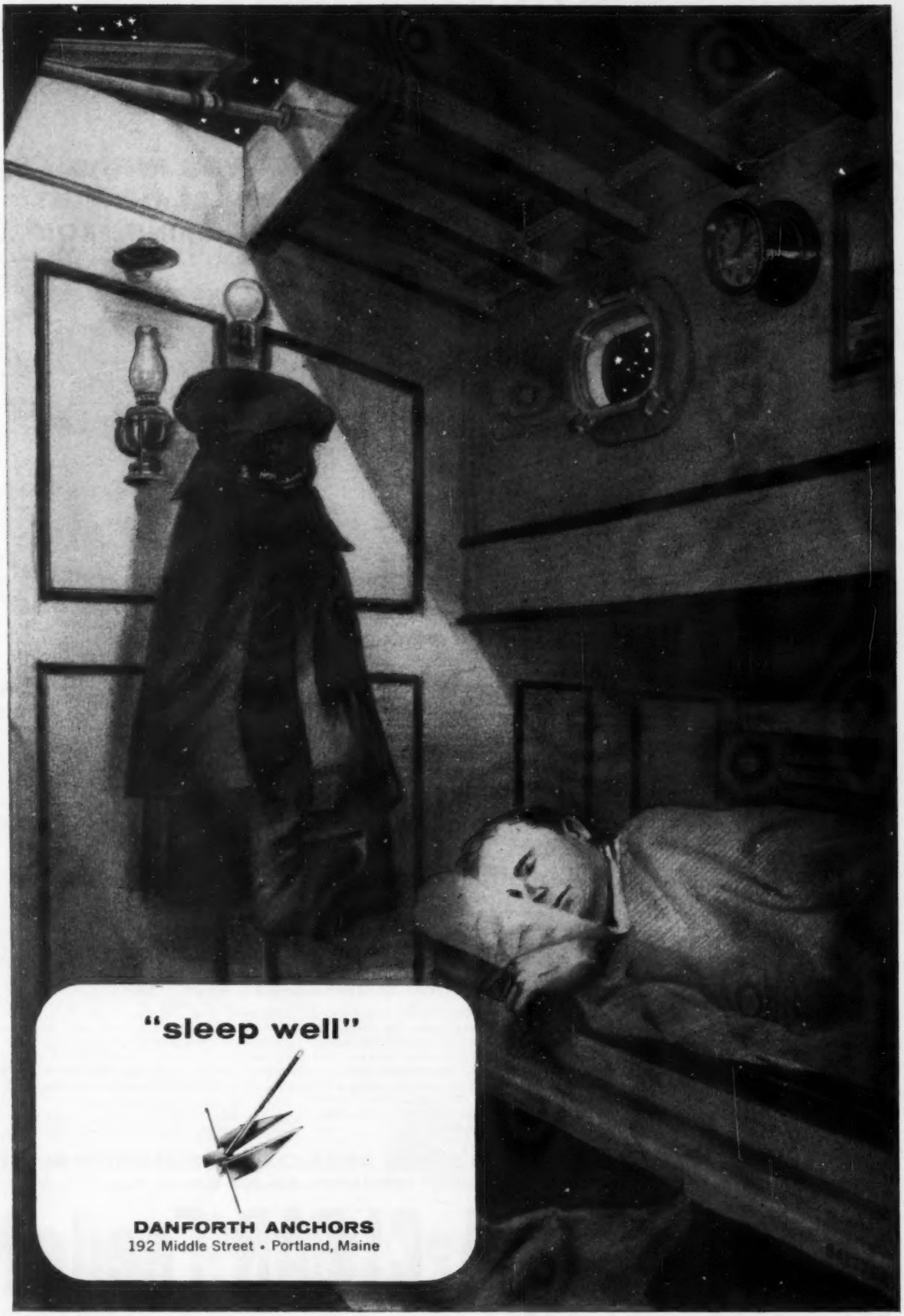
For the man looking for his first boat—many craft on the pages which follow will resemble boats he has admired locally. He can find how much similar craft cost, and a general idea of what he can get for his money, though some prices given here are subject to change due to shipping costs and other factors. By writing to the builder listed he can locate the dealer nearest him. Boating friends and dealers can also advise if his choice is practical and safe for his local waters, and how he can find where to learn to use a boat. Many of the hardware manufacturers listed also offer catalogs which show their complete lines and provide extensive information of the many items of equipment and accessories available.

For the more experienced boatman—the Directory is a ready reference for the larger boat, the new engine, the special fittings, navigational aids and maintenance accessories that he has found he needs next. For the boatman who has learned to know what he wants, this Buying Guide will provide the name and address of thousands of sources for items of marine equipment. Listings in the hardware and accessories division pages, especially, are selected samples from the many items each company has available.

For the boatman who is old in experience on the water—he will find gratifying amounts of both the old familiar and the progressively new. Clean and true hull lines that have proven to be seaworthy over the years are still the lines in demand. New materials are being used to make fittings lighter and more dependable, longer wearing and more weather resistant. The public is demanding better and safer boats, and is learning the characteristics that make a craft look well and perform properly. The expert this year will find more of the improvements he has long wanted to see.

Boatmen new and old should find the pleasure craft and marine aids now available will make boating this year better than ever before.

—Wm. Taylor McKeown


"sleep well"
DANFORTH ANCHORS
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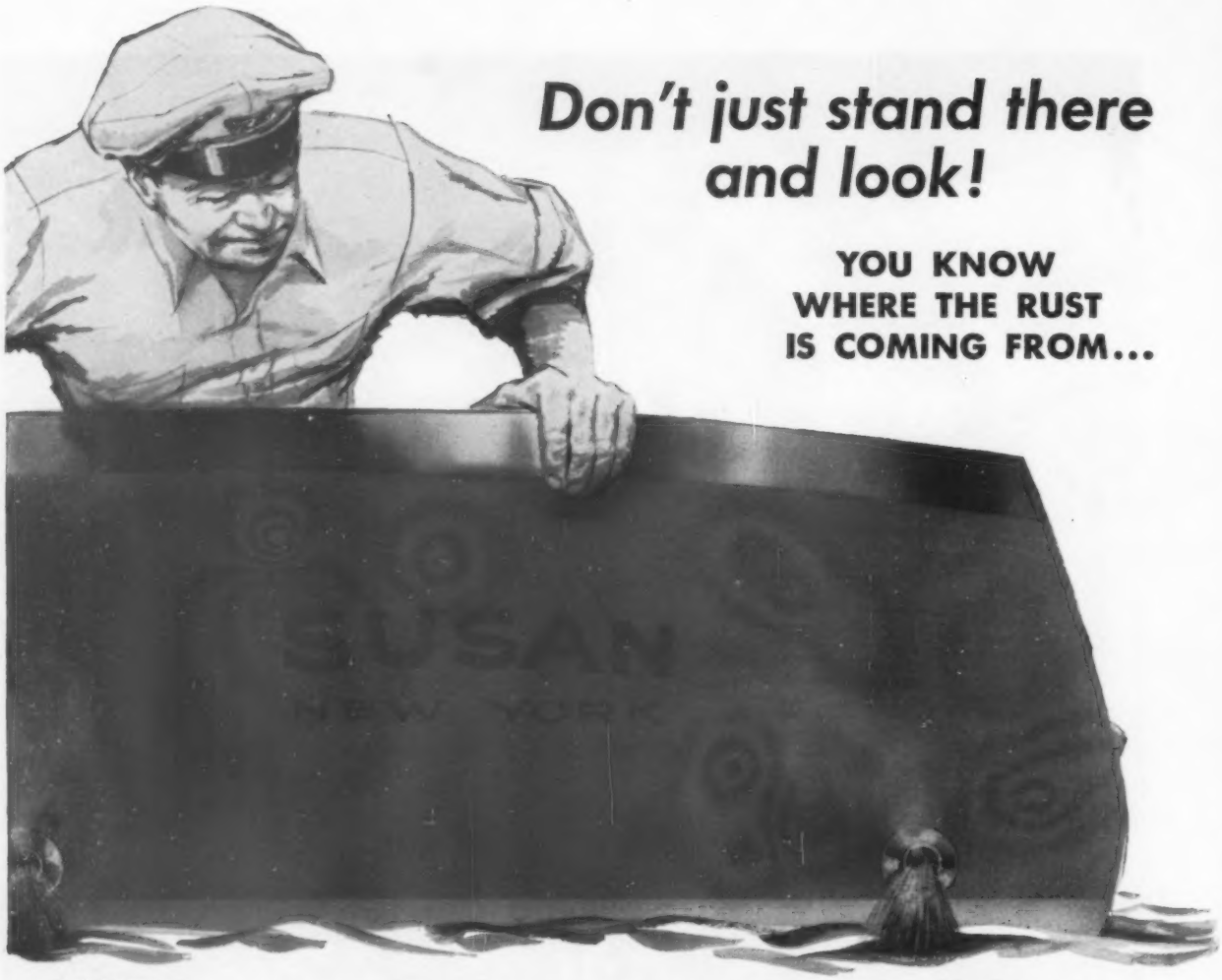

It's The Vital Parts Of Your Engine Going Out The Exhaust

Every gallon of water circulating through your cooling system is carrying away some of the inner walls of your engine in the form of rust and corrosion, unless it is protected with an AQUA-CLEAR Feeder. They make raw cooling water non-corrosive, lessen electrolysis—and prevents scale formation so your engine cools properly and runs more efficiently.

Hundreds of commercial ships, tankers, colliers, and cargo carriers as well as luxury passenger ships like the S. S. America, Gripsholm, Zion, New Bremen and ships of the United States, Norwegian, Danish, Dutch and German Navies have found from actual installations, tested and evaluated by their expert engineers that AQUA-CLEAR Feeders do stop rust and corrosion in both salt and fresh water lines.

The world's largest manufacturers of marine engines use and recommend AQUA-CLEAR Feeders. In fact, one engine builder has bought and installed over a thousand.

Guaranteed To Double The Life of Your Engine

Marine Engines Don't Wear Out...

...they rust out. But 50,000 experienced yachtsmen have proved over the years that AQUA-CLEAR Feeders protect their power plants from rust and corrosion. You too, will find your engine will last longer, have less maintenance and greater turn-in value. Even on an old engine an AQUA-CLEAR Feeder will double its life, and the Feeder can always be transferred to a new engine.

Improved 1960 DeLuxe Model Now Available. Better than ever, with new improvements developed through years of experience. It's good business to order **NOW!** You'll be sure to have it for fitting out time. Average cost about $50.00—see coupon on next page.

AQUA-CLEAR CRYSTALS
Be sure to use Genuine AQUA-CLEAR Crystals to replenish the supply in your Feeder. 1 lb. $2.50

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X MARKS THE SPOT

for fresh air and light, even with hatches closed!

KEEPS OUT RAIN AND SPRAY

Sudbury TRANSPARENT SKY-VENT

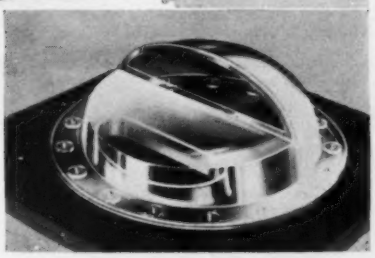
"THERE'S NO VENTILATION LIKE SKY-VENTILATION"

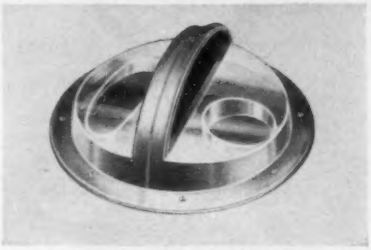
The biggest ever-present problem aboard any boat is lack of adequate ventilation. This dangerous condition can destroy a boat with a sudden explosion. The more common and insidious result is dry rot, mildew, musty odor, and dank moisture. Nothing deteriorates a boat more below deck than poor ventilation; of this yachtsmen are always uncomfortably aware.

Thousands of boat owners the world over have found the answer to this problem is the Sudbury Sky-Vent. It gives positive continuous air circulation and light below deck, yet keeps out rain and spray, prevents dry rot and mildew.

In rough weather, even hurricanes, the cabin is fresh, airy, light. Many boats boast more than one — for Sky-Ventilation on forward hatch, over head and galley. Ventilation is the life-line of every boat; no boat ever had too much!

The molded mirror-finish design adds to the appearance of any boat. A Sky-Vent owner is always proud of, and ready to tell you why he would not be without one. Sky-Vents are made of durable Lucite, are non-fouling, non-corrosive. Require no maintenance. Transparent. 9-in. $34.95; 12-in. $59.95; 18-in. $89.95. (In your choice of colors, slightly more.)





DOUBLE-ACTION SKY-VENT

New Double-Action Sky-Vent!

More ventilation with the same size SKY-VENT where intake of fresh air and outflow of stale air is desired. Both intake and outlet can be regulated. Regular Sky-Vent advantages plus complete two-way circulation. 12 in. $69.95.

Everyone Wants to Ride in the SEE-THRU Boat!

Sudbury TRANSPARENT Pram

It's the famous Sudbury Transparent Pram that has been the sensation of the Boat Shows. One look and you want to own one. Know the strange feeling of literally sitting on water, gliding smoothly along, seeing the view below. Handsomely designed, its featherweight makes it an ideal dinghy. Stowed on a boat over an open sky-light, it keeps out rain and spray.

Attracts attention from everyone as a car top boat and its less than 50 pound lightweight lifts with ease. A natural for skin divers!

Beats any glass bottom boat. Everything under water is clearly visible. Like looking through a picture window at the wonders of the sea. Rugged one piece hull resists scratching. Uneffected by tropical sun and salt water, when rowed or with an outboard. Plenty of freeboard on this eight foot pram when carrying three.

This transparent boat has stirred more interest than any boat since the Mayflower II made her voyage to Plymouth. She's a thing of beauty, and the pride and joy of every owner.

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9 in. **$34.95** 12" **$59.95** 18" **$89.95**
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Plus crating and shipping

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Hi-Heet Fuel **25c**; Large Can **50c**

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Compensated English barometer movement accurately registers altitudes from 0 to 10,000 ft. Mounts in car or light plane, or may be carried in pocket. 3¼" x 1½". Gift boxed. $7.95

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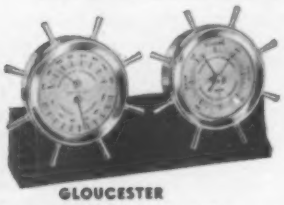
Compensated English barometer movement specially marked to show when weather is favorable for fishing. Shatterproof case and crystal. Hang on wall or keep in leatherette case with gold-filled trout design on cover. 3⅜" high. $7.50



GLOUCESTER

Compensated English barometer movement, thermometer and hygrometer combination. Hand rubbed mahogany base, triple-plated brass finish. 10⅝" x 5⅜" x 2". Gift boxed $20.00

*Binoculars subject to 10% F.E.T.

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READERS REPORT:

SMALL BOAT CHARTS

Congratulations on your editorial denouncing curtailment of the Small Boats Chart Program. This economy appears to be a real governmental boo boo.

Let's look at the facts:

Existing charts are at least difficult to use on small boats. So—

Boatmen try to do without. So—

They run aground, run out of fuel or get lost (sometimes for keeps). So—

The Coast Guard to the rescue, Bless 'em. So—

Many dollars must be used to rescue the foolish and ill equipped.

It doesn't make sense to withhold a few thousand dollars which would surely make boating safer and at the same time save more in Coast Guard fuel alone than the initial program investment.

We must all write to our congressmen denouncing curtailment of the Small Boats Chart Program. Failure to write is to assume responsibility for at least some of the foolish boating accidents which would be averted by reference to usable charts. I wrote. My boating friends are writing. Have you?

Hank Seglem
Melbourne, Fla.

WANTS TO SUFFER

The Federal Government has no business paying for the investigation of, gathering information on, and disseminating information on availability of launching ramps, gas stations, water, ice, bait, meals, lodging, etc., as mentioned in your recent editorial. I do quite a bit of traveling on the navigable rivers (Kentucky, Tennessee, Green, Hudson, New York Barge Canal and others). My quota is usually about 300 new miles each year with some repeating. Of course, this travel does result in some inconveniences in not knowing where the facilities are and I would like to have a pamphlet or something that would tell me where I could obtain the niceties of river travel. But I do not think that the Federal Government or any other governmental agency should get into that business.

There are enough people hollering to Washington and writing Congressmen and using many other means to get government to take care of them. We are losing our stature as free individuals and undermining the system of free enterprise that made this country great. I would much rather continue to suffer some inconvenience than have the pleasure waters of the country become a pressure group to influence Congress to subsidize our pastime.

Let's us boaters pay our own way, finance our own sport, take care of ourselves. Let's hold our heads up instead of our hands out.

W. J. Barker
Xenia, Ohio

MARINE INSURANCE

Being a fellow boat owner, but also being an insurance agent writing considerable marine business, the letter concerning insurance rates, written by R. E. Phillips of Reading, Mass., (July issue), was entirely erroneous. Florida and southern waters coverage in all companies underwritten by this office (leading domestic carriers) have a higher premium. For example, an 18-foot, but not over 20-foot vessel with 20 horsepower but not over 30 horsepower, would take a premium of $4.75 per $100 of valuation in New England, and would take a rate of $5.50 per $100 of valuation in southern waters.

In all fairness to the insurance industry, I believe I am correct in stating that rates are predicated on losses and the exposures involved. No insurance carrier will provide coverage for 12 months of operation on a similar basis to that which only entails six or seven month operation. Evidently your reader should get better information in the future.

Eugene I. Morris
South Orange, N. J.

CHECK LIST CRUISING

I would like to see more planned cruises for the West, as we live out here and there's no chance of our taking our 19-foot cabin cruiser east to the planned cruises usually detailed in the magazine. We are novices, trying to learn, and we get many useful hints from your magazine. I would like to see more articles on camping with your boat with check lists.

H. J. Reinert
Templeton, Calif.

SMALL BOAT DESIGNS

Haven't seen any small 12-foot to 14-foot outboard designs for awhile! Believe some promotion on good loading and unloading ramps and locations to be of interest to small boatmen also.

Roy P. Hockelberg
Canonsburg, Penna.

CHARCOAL GRILL

I was most surprised to see an illustration on page 45 of the August issue of POPULAR BOATING of a portable charcoal grill on board a boat. Even in fair weather this is most hazardous as the wash from a passing boat could easily upset the grill. That little girl

(*continued on page* 12)

Christening the newest family member!

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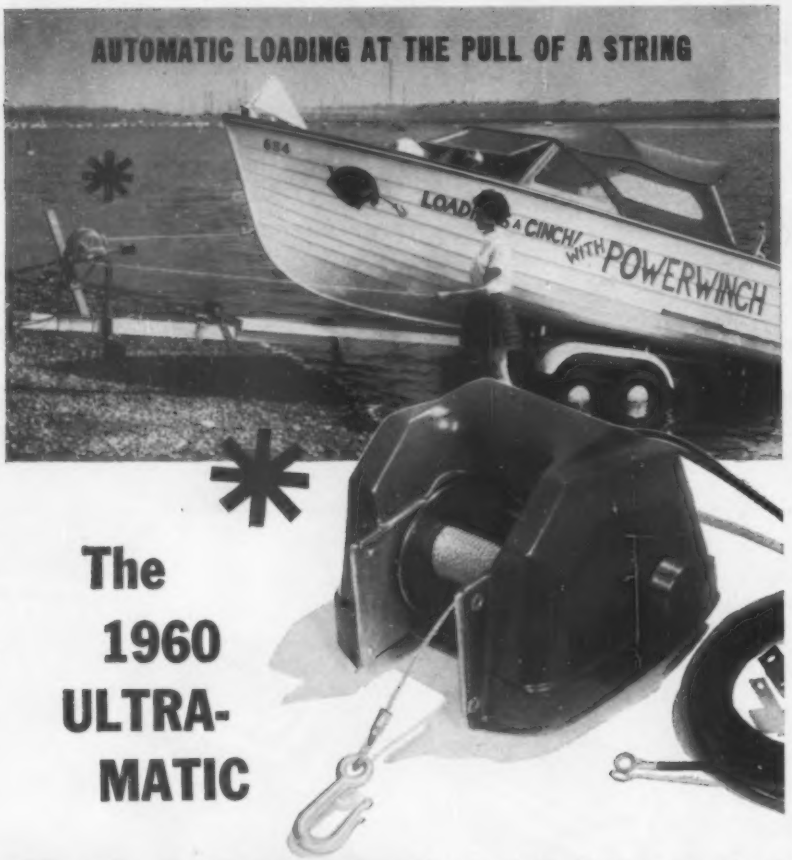

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A SUBSIDIARY OF JOHN AHLBIN & SONS, INC.

READERS REPORT

(*Continued from page* 10)

looks awfully close!! Even ashore you have to take care that grills are not tipped over. I would like to see you remedy this piece of advice with "safety first" in mind.

R. S. Potter
Newington, Conn.

Reader Potter is correct. It is dangerous to set up and use a charcoal grill aboard a boat. These are handy items for a camping-cruising trip, provided they are used ashore and that all normal safety precautions are followed.—Ed.

RIG-IT-YOURSELF

While I realize that the majority of your readers are powerboat men, I would like to see articles on rig-it-yourself sailboats. One of the reasons why I like to keep this magazine is that its articles have lasting value: there is, however, nothing more irritating than to find that some one of my friends has cut out and sent away a coupon from an ad in my magazine, and the end of an article I want to save is on the other side of the coupon. So please try to put ads with coupons so that they do not back articles.

These two points are my "main beefs," and if possible I hope that you are able to do something about them.

Robert Spekkens
Ottawa, Ont.

Why not encourage your friends to get their own subscriptions? We try to provide how-to-do-it information for both sail and power enthusiasts.—Ed.

REPOWERING A HULL

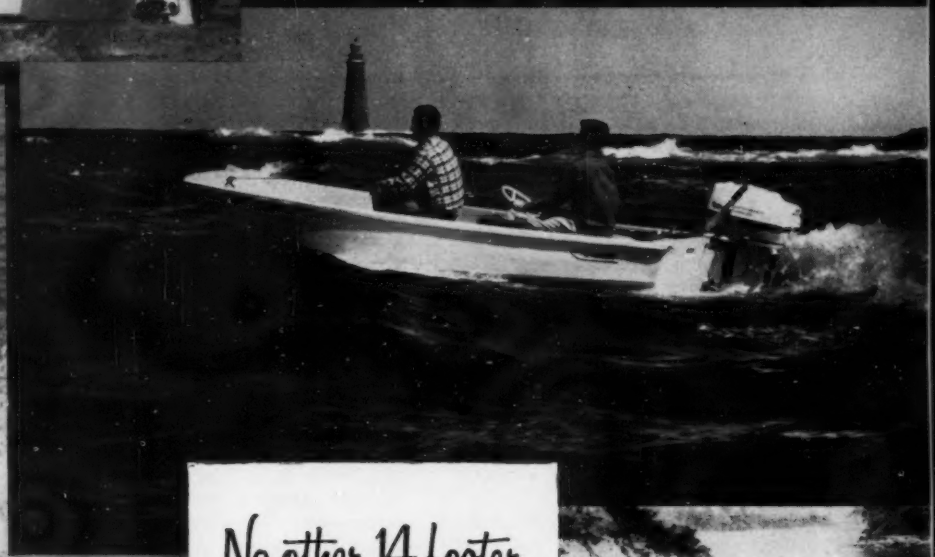
I have been following your series on More Speed with interest. I'm not interested in speed alone, but want a unit that will give me satisfactory performance. Of course I like to move along well, like all boatmen, but do not expect miracles.

I have a 38-foot vee-bottom cruiser, about 12 years old. It weighs approximately 8½ to 9 tons. For the past five years it has been powered by a slow-turning Buda diesel of 110 hp, with 2-to-1 reduction gearing. This has done a fair job, but now I must install something new.

I have an option on a rebuilt 160 hp Chris-Craft engine, with 2½-to-1 reduction gearing. But after reading your articles, the conversion unit also appeals to me. What is your opinion?

Harry M. Fradnach
Franklin, Mass.

We suggest you read the current installment of the More Speed series, in which repowering with new engines is discussed. Then you will be able to make up your own mind which will be most suitable for you.—Ed.



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BOSTON WHALER

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THE FISHER-PIERCE CO.

Here's How to Salvage A Dunked Outboard Motor

By V. Lee Oertle

ALL kinds of accidents occur, both aboard ship and on the dock, that may cause an outboard engine to go over the side. A quick glance over the gunwale reveals nothing but a chain of air bubbles, and you suddenly think: five hundred bucks, shot! But don't dismay—there is a good chance that your dunked outboard may be fairly easily salvaged—if you act fast and decisively.

How does it happen? Perhaps a safety chain was not attached—or was snapped to the transom handle and not to the motor, in the rush of departure. Rough water, fast turns, striking an underwater obstruction or sand bar that can fling the motor off the transom as easily as though it were clamped onto greased glass. How many times have you osberved someone set a small outboard motor on the very brink of the landing dock, then leave it while returning to his car for another armful of equipment. A dock hand is at that moment backing up, helping a large craft come into berth —and he stumbles. Off the dock goes the motor, and possibly the bumbling clod that dislodged it.

We'll leave the wildly thrashing sailor to his own devices at this time. We are concerned with a quick salvage job on that outboard. If the wet stuff is salty, the faster you haul the motor up out of the depths the better off the entire unit will be. There are several possible methods to get the motor topside. The most obvious, of course, is to attach a stout line to a swimmer and send him down to secure an end to the motor. If the depth of water is below 15 or 20 feet, most of us would need the assistance of a skin diver for this emergency. If someone in the crew is familiar with oxygen underwater equipment, this is a fairly easy method of retrieving the motor. But for the inexperienced diver, or for persons with physical handicaps or heart trouble, far better to lose the motor than risk your health—if no other course of action is open.

The last resort is the grappling hook on the end of a strong long rope. Be certain to mark the spot with a weighted line tied to a pop bottle, cork, life cushion, or anything that will float.

Attach the line to the motor at the front lifting handle, thence back through the rear support handles, if any, tying in at least two places. If you can lift the motor from the water power-head first, so much the better. Don't waste time trying to get the motor into the boat without scratching the metal shroud. Scratches can be easily painted over later. The important thing is to get the motor to shore as quickly as possible and follow these simple steps.

For easy accessibility, remove the motor shroud. Lay cushions on beach or dock, then proceed as follows:

1—Remove all spark plugs; lay them aside where they can't be damaged.

2—Take off carburetor sediment bowl, clean it thoroughly, then replace.

3—With the motor laying on the rear side (spark plug holes down) pull the starter cord eight or 10 times. This will drain out most of the water from the power head.

4—Remove the air silencer to expose the carburetor throat and pour a teacup of motor fuel (gas and oil mix) into the carburetor. Pull starter cord eight or 10 times to flush the fuel through the motor. Repeat this operation until one quart of fuel has been flushed through the motor.

5—Replace air silencer and spark plugs and attempt to start the motor in the normal manner.

Quick and decisive action is the keynote to successful salvage of a submerged outboard motor. The time limit is set at from three to five hours, before damage from rusting begins. Don't put it off till tomorrow. Do it *now*. If you are not successful in starting the motor after following the instructions, take it to your dealer and he will disassemble it and use precautionary measures. ⚓

ANCHORING AIDS

By Jim Emmett

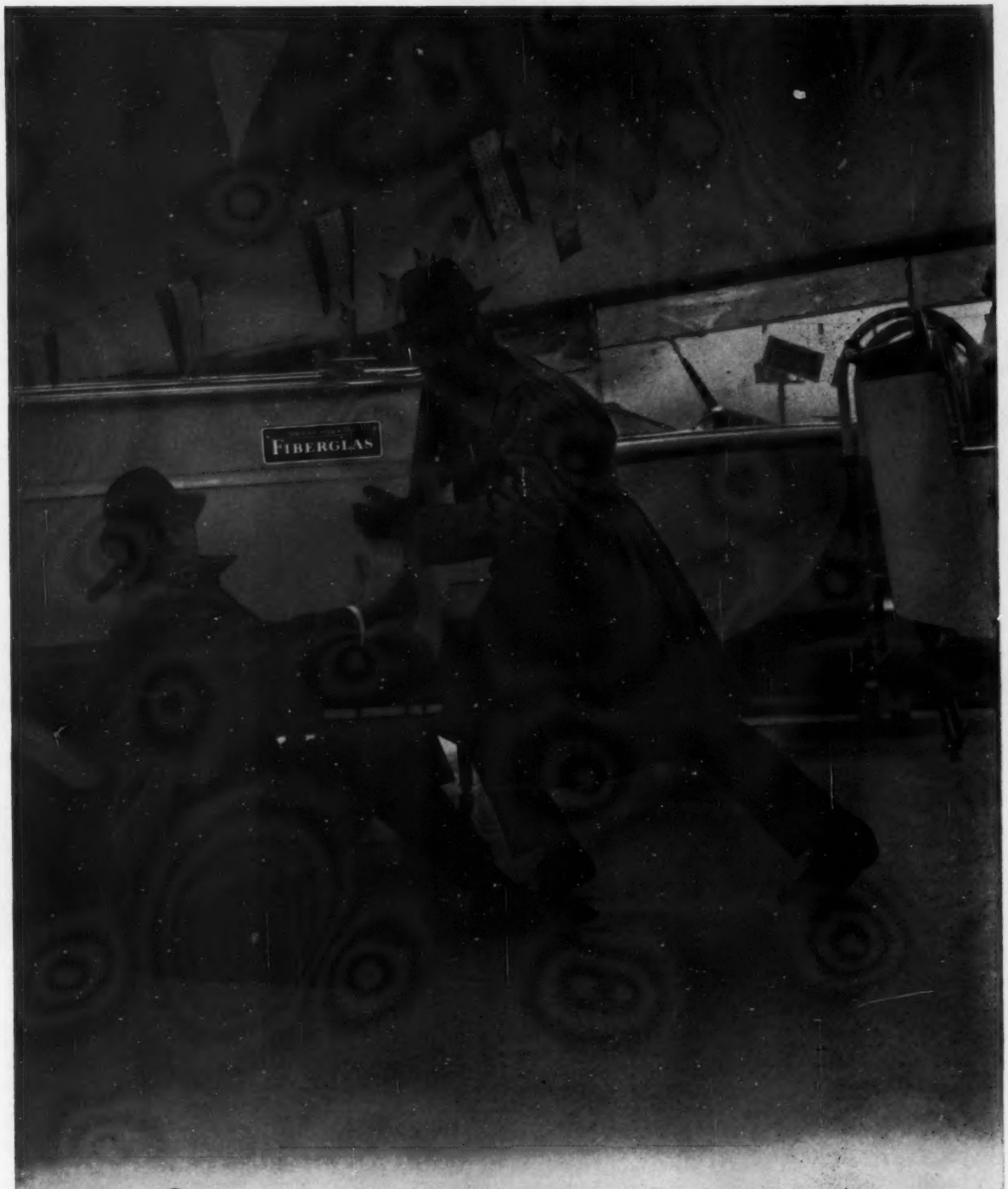
THERE ARE MANY small items of ground tackle that one acquires, most of it of the homemade sort. Riding to the windlass, particularly with chain out, is not good practice. A simple way to avoid it, making it unnecessary to take the chain off the wildcat to secure it about the bitts or a cleat, is to have a loop of heavy line, say 7/8-inch diameter, spliced to shackle to what's called a logging-chain hook. The latter is common hardware store item, intended to seize and hold about a link of chain, when bought in a size to suit it. One puts the loop about the bitts or over the heavy mooring cleat, then hooks onto the chain. By easing off on the windlass it is freed of the strain, leaving one riding to the bitts or cleat. To release the hook one merely winds in enough chain to permit freeing it. In a rough anchorage, the effect is much the same as where a spring-loaded chain buffer is used—the sudden jerks are smoothed out. An improvement over manila would be to use 3/4-inch or heavier shock cord. If the loop should fail it wouldn't be fatal: the chain would just bring up on the windlass wildcat.

If you expect to cruise a section where anchorages are such that your hook could get badly caught—either swamp country with stumps or other underwater obstructions or the reverse, the rocky sort with rough or fissured bottom—it's a good idea to carry an anchor buoy. Ours is a 2 x 4 x 18 inch chunk of cedar, painted white for visibility, and having a hole in one end into which a 25 foot length of 3/8-inch line is spliced. Before putting the anchor over, the free end of the trip line is hitched about the crown, and the buoy is left floating. Should the anchor get caught it is an easy matter to free it by using the buoyline to hoist the hook crown first.

Where rope is used, proper chafing gear can easily double the safe life of your line. It's well to have odd pieces of heavy canvas aboard for this purpose, but special guards now available are a big improvement over canvas scraps, affording better protection and being more likely to be used.

Several of our friends carry anchor line travellers which permit the anchor to be aided by running down its line some sort of weight, either a pig of lead ballast fitted with an eye or ring, or a lighter anchor. Most of them are homemade, shackle-like fittings but with enough round to the top or bearing surface to not chafe the rope unduly. The retaining line, used to lower and hold the suspended weight and later to retrieve it, must be attached to the fitting in a way to permit easy travel down or up the line.

What is really important is to stow at least your service anchor in such a way that it can be dropped over almost instantly, if need be, and chain or rope paid out quickly. One advantage of the modern anchors is that their design makes possible some such way of stowing or carrying. Either anchor chain or a rope rode should be reversed end for end each season to distribute the chafe and wear. Be sure that the bitter end of either is shackled to a strong eye-bolt put into the stern or a floor timber for that purpose. Check all shackles used with your anchors or in connection with your ground tackle to see their pins haven't rusted tight. You can never tell when you may have to remove one in a hurry. — ⚓



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HERE'S HOW

Answers to Your Boating Queries

By Ken Whitteker

WHAT PROPELLER?

I HAVE AN 18′ Scottie Craft plywood express cruiser with well built inside back of boat. 35 h.p. Johnson motor, made about 20 mph. Took cabin off—moved steering to front of boat to attain added room, speed.

In meantime lost propeller and got new one—3-bladed Michigan.

Speed reduced (rather than increased by removing cabin) so am inclined to believe I got power propeller rather than one I should have gotten. 18′ boat, 7′ beam, 35 hp. Johnson (reg. shaft). Steering 3′ from front. Please advise proper speed "prop" for maximum speed, one person aboard.

Also would appreciate information as to proper motor angle for maximum speed with one, two, and three persons aboard.

Jas G. Anderson
Neosho, Mo.

The planing action of a boat begins at its center of gravity. This has been taken into consideration by the naval architect when designing the craft. Alterations and changes in weights that change the center of gravity will of course affect its performance. For a light-weight runabout of 18′ in length a propeller 10.4″ diameter and 11.5″ pitch with three blades should be about right. A heavy runabout or cruiser of 18′ length would be better served with a four blade propeller of 10″ diameter and 11″ pitch.

As to motor angle, it is important that the tilt be adjusted so the cavitation plate, the flat projection at water level that holds solid water down on the propeller, is parallel to the flow of water past the boat in motion. This overcomes the tendency of the motor to pull to port or starboard, transmitting this pull to the boat. In the parallel position, the propeller blades take an equal bite on either side of center as they rotate around the shaft, and steering effort is a negligible factor. Also too great a tilt tends to push the stern down and raise the bow. Insufficient tilt has the opposite effect.

MORE SPEED

WHAT PROCEDURE should be followed in checking out both boat and motor to insure maximum speed at present time, and what could possibly be done to increase this speed either somewhat or quite a bit.

M. Luzecki
Philadelphia 22, Pa.

1. Obtain accurate information from the designer or manufacturer of the boat as to the speed for which it was designed and under what conditions of water and with what equipment this speed is to be attained.

2. Make several runs in both directions over a course of known distance to determine the speed being attained. It is assumed that the boat will be equipped as the designer and manufacturer intended. It is also assumed that the motor will have been checked by competent personnel and that it is developing its full rated horsepower. It may be necessary to employ a dynamometer test to be assured of this.

3. If the boat is performing as the designer intended and is attaining the speed for which it was designed then higher speed is best obtained with a boat and motor combination that has been designed for higher speed operation.

WEDGES

I PURCHASED RECENTLY a 17′ lap strake skiff. It is a runabout with a 6′ 3″ beam and transom width of 5′ 2″.

A boat dealer informed me that it would not be very fast. However, I could get it to plane better and get more speed if I would put wedges under the stern. I would like your opinion on this suggestion. I plan to use a 35 or 40 hp engine.

Peter S. Picucci
Flushing, N. Y.

It is true that wedges can be of considerable assistance to planing action under certain conditions. If, at full speed there is not more than four degrees change in trim between bow and stern the wedges will have little effect. As far as speed is concerned, sometimes a wedge will reduce speed but improve trim. The effect of the wedge is, of course, to give a lift to the stern of the boat. Wedge action or lift being greater at high speeds than at low ones.

Wedges should be installed the full width of the transom. Length of the wedge may be from 8″ to 12″. The longer length gives smoother action and improved lift. It is the butt thickness that is the main factor in determining the amount of lift that a wedge will provide. This may vary from ¼″ to 3″ depending on the amount of lift required and the normal operating speed. For example a butt thickness of ¼″ will provide the same lift at a speed of 20 mph as a 2½″ wedge at 8½ mph, assuming both wedges to be 12″ in length.

Neither of the wedge arrangements shown in the sketches submitted with your letter would prove satisfactory. Your scheme #2 is nothing more than

(*continued on page* 18)

THE FASTEST SEAFARER

SPECIFICATIONS:
Seats 6; L.o.a. 17'7"; beam, 6'7¾"; draft, 18"; bottom and transom, ½" 5-ply marine Mahogany-faced plywood; decks and sides ⅜"; keel, stem laminated Mahogany - ALL wood PENTA treated; fused 12 volt system; fastenings, non-ferrous; tank, 25 gal.; engine box, Vinyl-covered, sound-insulated; copper, water-cooled exhaust system; Monel shaft, rudder, strut manganese Bronze; hardware, chrome-plated; engines, Gray, Chrysler, Dearborn, 125-240 h. p.

STANDARD EQUIPMENT:
Combination ign.-starter switch; complete marine instrument panel; nav. light; foot, hand throttle; windshield, custom, metal framed; step pads; electric horn; ensign, bow staffs; 70 amp. battery; chrome toe rails.

PAINT:
Exterior, choice of two-tone blue-white, white-gold, or gold-black; striped, varnished decks; bottom, filler, copper paint.

Symmetry and Speed . . .
Meet the Mandalay 18

HERE IS THE MANDALAY, the newest achievement by Higgins, incorporating all the splendor and swagger of the fast Magnum, while reaching new horizons of beauty, new levels of comfort in motion. She's styled for the skipper who takes pride in owning the finest, with speed, power and luxury unsurpassed in the runabout field.

At first look, you'll thrill to the eager elegance of her trim lines, two-tone upholstery matching her exterior hull colors, distinctive appointments and comfortable seating for six in the large, open cockpit.

Then, slip behind the wheel, turn the key and feel the surge of power at your command, the maneuverability that's yours in the MANDALAY.

With engine options up to a power-packed 240 h.p., developing speeds to a sensational 46 m.p.h., you'll experience the fun of fast-action water sports, the quiet pride of possessing the finest . . . in the Higgins MANDALAY

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The PORT ROYAL 17 Runabout **The TAHITI 24 Outboard Cruiser**
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The GRANADA 26 Cruiser **The CHANDELEUR 30 Cruiser**

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ONE HAND does it ALL!

POSITIVE NEUTRAL
Exclusive Feature prevents unintentional "PANIC PLUNGE" from forward into reverse (or vice versa)

A completely natural action. From POSITIVE NEUTRAL . . . PUSH to move FORWARD . . . PULL to REVERSE! No gears to shift, no worry about losing control, no motor damage from "panic plunge" . . . no more fumble and jumble of knobs and steering at the same time. Exclusive Unitrol "cam-action" shifts motor into gear with the quick, sure motion recommended by all motor manufacturers without faster hand movement at that moment. Short over-all operating range keeps lever instantly accessible. Warm-up lever for cold starting.

New DUOTROL
TWO LEVER CONTROL

Here's smart, new styling to compliment your boat . . . and designed to operate all outboard motors equipped with conventional shift. Can be mounted anywhere in the boat and is reversible for port or starboard installation.

Ideal for twin-engine installations.

CABLES: Cables available for new installations or adapter kits permit installation with present cables for both Unitrol and Duotrol units.

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UNITROL STEERER

Single Cable Control
With Sparkling
New Translucent Wheel

Special equalizer overcomes natural propeller pull for smooth turns at low or high speeds. Compact "gear and rack" system — firmness of wheel adjustable.

HERE'S HOW

(*continued from page* 16)

bilge keels which might reduce rolling but would not increase lift.

Since the motor you plan to use is of moderate horsepower it is possible that you may not require wedges. They are a makeshift arrangement at best and merely an attempt to obtain a type of performance for which the boat was not designed.

MORE WEDGES

WE HAVE a Delta plylap boat 16′ 6″ long with a 5′ maximum transom width. It is powered with a 50 hp Starflite and next year will be a 75 hp. Starflite. The boat has a tendency to run with the bow in the air and a noticeable low at the transom.

Is it possible to put wedges on the back to make it run more level? If so how large? They could be put on in spite of the plylap, but there is not much thickness in the molded hull for screws. Would they hold with glue? If so will they cut the speed and effect the handling of the boat? The battery and tanks are in the back as there is no other place for them.

Jas. W. Morrill
Joliet, Ill.

In regard to the use of wedges see my reply to the question submitted by Mr. Peter S. Picucci, the answer to which appears in this same issue.

There is no reason why wedges should not be affixed to the hull with a good grade of waterproof glue of the phenolic or resorcinol cold setting type.

As to your change from a 50 hp to a 75 hp motor, you should think this over very carefully before making the step. Based on the boat measurements you submitted, the higher powered engine would be squeezing the upper limit for a boat of this size, as calculated by the horsepower boat rating method of the Outboard Boating Club of America. If your life and accident policies are paid-up there should be no problem. However, I would like to point out that nearly 6% of the fatal boating accidents in 1958 were due to faulty or *mis-matched* equipment. This was an increase of 2¼% over the year before. It is quite probable that most of the accidents in this category were caused by the installation of motors that exceeded the maximum for which the boat was designed. Better think it over.

HYDRAULIC STEERING

I OWN A 1953, 33′ Chris-Craft Captain with a 10′ 4″ beam. I am considering the installation of a hard top with a flying bridge made of plywood and fiberglass. I have 2, 145 hp engines d.d. with Chris-O-Matics. For steering, I would like to eliminate any obstructions between the present helm and the flying bridge—would it be advisable to use hydraulic controls? If so, can you recommend some? Another problem I have—I use 14″ x 14″ wheels—the port engine will not rev up over 2500 rpm, the starboard engine not over 2700, engines were tuned 3 times—when increasing speed bow rises and stern sets deeper into the water and leaves quite a wash. The boat doesn't have any ability to plane or even level off—I have a semi V-bottom—is there any room for improvement here?

Walter Spevach
Elmount, N. Y.

There is no reason why hydraulic steering controls could not be used in the installation you propose. As to the difference in engine speed, since they are identical units, there is probably some difference between the operating conditions of the two units. Have you checked with the manufacturer of the boat as to the performance you should expect with present equipment? Their address is Chris-Craft Corp., Pompano Beach, Fla. I am sure they would welcome the opportunity to see that your boat performs in a satisfactory manner.

Tendency for the stern to sink as speed is increased can in some instances be reduced by the use of wedges. (See reply to question submitted by Peter S. Picucci, which is answered in this issue.) The condition you described was helped materially in an identical boat by using wedges ⅝″ thick at the butt end and 8″ long. Hydraulic controls suitable for your use are made by Columbian Bronze Co., Freeport, L. I., N. Y.

MOTT PLUMBING FIXTURES

WHERE CAN I obtain repair parts for a Mott marine toilet?

Claude C. Walker
Doraville, Ga.

Mott marine plumbing fixtures have not been made for several years. You might try Wilcox-Crittenden Co., Middletown, Conn., who have an extensive line of repair parts for marine toilets.

PROPELLER SELECTION

IS THERE A certain formula for choosing the right size and pitch propeller? Let's say the boat is a 14′ plywood runabout. The power is a 60 hp Ford. Approximate boat weight is 600 lbs. At present time turning a 9″ x 9″ propeller. With this wheel the motor rpm is 4,000. This is direct drive right from the motor—no gear box. The maximum speed obtained with this set-up is 31 mph. What size and pitch propeller would be best to obtain more speed and also if I increased the motor rpm by approximately 600 rpm what size would be needed then?

Arthur B. Czaplewski
North Las Vegas, Nev.

(*continued on page* 22)

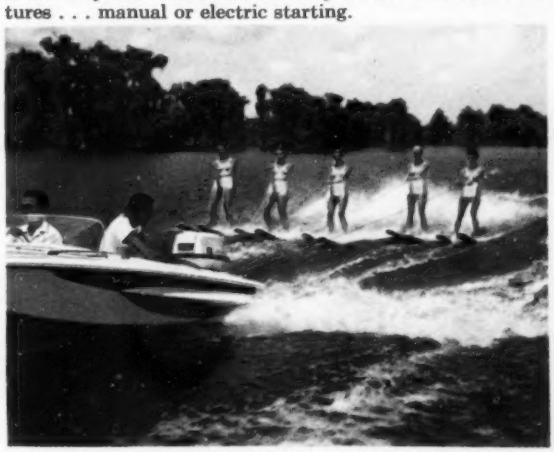
On many boats, speeds over 40 m.p.h. . . . the Sea-Horse V-75, $895, electric starting included

NEW SPEED-NEW POWER-FROM THE WORLD'S MOST DEPENDABLE OUTBOARDS!

Never before have so many people had so much fun with the speed of an outboard motor! Never has so much eager-driving action answered your touch on an outboard throttle. The V-75 means what it says: a *full* 75 hp, O.B.C. certified at a reasonable 4500 r.p.m. And it's as quiet and dependable as only Johnson's *balanced-firing* V-engine design can be! You get runabout "zip" and maneuverability —even on a family-loaded cruiser. Johnson's new blade-thin lower unit slices through the water for top efficiency. All the experience gained in building *two million motors*—more than any other manufacturer—has gone into making this new Sea-Horse V-75. See it and six other sleek new 1960 Sea-Horses, 3 to 40 hp, now at your Johnson dealer's. He's listed in the Yellow Pages. Prices start at $160, f.o.b. factory, subject to change.

FREE 1960 SEA-HORSE CATALOG! See your dealer or write Johnson Motors, 775 Pershing Rd., Waukegan, Illinois. (In Canada, Peterborough, Ontario) Div., Outboard Marine Corp.

NEW SUPER SEA-HORSE 40 . . . top water skiing power in the 2-cylinder class. It has many of the V-75's new features . . . manual or electric starting.



Beaching it at Paradise Beach

Room to spare in our G-3

Wonderfully stable even on the roaring turns

Judy won 1st place in the water skiing race

Skiing behind the G-3 with the speed of a breeze

PHOTOGRAPHED IN COOPERATION WITH NASSAU YACHT HAVEN AND PILOT HOUSE CLUB

DON'T *SPEND* A VACATION...*KEEP IT* WITH GLASSPAR!

Invest part of this year's vacation budget in a down payment on a Glasspar boat...and then clip holiday coupons all year. As little as $69.50 down...or a total of $695...and you're the envied pilot of this swift G-3 skiboat. The one in this family's scrapbook added sparkle to a Caribbean holiday at Nassau. It goes anywhere...trails as easily as a puppy...and when it gets to water it really goes! The G-3 seats four comfortably, corners like a sportscar, and there's a special out-of-the-way hold for skis. Whether you're up front at the wheel or up on skis in back, it's the most thrilling experience you can share on water. The G-3 will care for you out there...safe and steady at the highest speeds; and once home, the only care it needs is a spray from the garden hose. That's the way it is with the whole Glasspar fleet ...11 models from 14′ runabouts to 19′ cruisers, all built with the design, care and craftsmanship that has made Glasspar the world's largest manufacturer of fiber glass boats. See your Glasspar dealer or write for free full color brochure to the division nearest you: Santa Ana, Calif.; Olympia, Wash.; Nashville, Tenn.; Colonial Heights, Petersburg, Virginia.

Glasspar goes steady with *any* motor.....

"Why do I need a SPARE for my fire extinguisher?"*

*see next page

CAPTAIN FRED'S LOG

As I write these words, a wintry wind is whining past my window and the exciting boating experiences of last summer are dim but fond memories. For those of us living or visiting in warmer climes boating is a year-round sport, but for most of us this is a time of waiting and remembering.

Fred E. Lawton

But even though our boats may be laid up and snugged down, it's well to remind ourselves once more of the constructive steps that can and should be taken during these non-sailing months. As you might imagine, I have in mind steps that lead to the goal of all of us–increased safety afloat.

First, make sure that your boat is properly laid up to withstand the rigors of winter. This means paying particular attention to your equipment, making arrangements for it to be overhauled now instead of during the hectic fitting-out-season, and carefully storing it away.

Second, take this opportunity to bone up on whatever added practical boating knowledge you may feel you need. Certainly familiarity with the fundamentals of seamanship, piloting, navigation, emergency repair techniques, and weather forecasting is essential for most boatsmen. Make sure also that you're skilled in operating your equipment.

And finally, take stock of your safety needs as far as additional electronic equipment is concerned. With these needs in mind, pay a visit to the Boat Show in your area. You'll see a wide variety of equipment there, including a number of new models with important advantages –smaller size, simpler operation, self-contained battery power as well as the usual 12-volt operation, and lower power drain than in previous models. You'll find trained representatives of Raytheon and other companies on hand, too, ready to explain installation and methods of operation of their equipment.

By the way – I'll be in the Raytheon booths at the Miami and New York City Boat Shows. If you want to see a fine line of equipment or just talk boating, drop by and say, "Hello."

Fred E. Lawton

Fred E. Lawton, Professional Sailing Master of America's Cup winner COLUMBIA, is a veteran of 30 years at sea. He is a popular speaker on marine safety to boating groups throughout the country.

"Safety Makes a Happy Ship"

SAFETY AND EDUCATIONAL AIDS
"SAFETY MAKES A HAPPY SHIP"
RAYTHEON COMPANY
MARINE PRODUCTS DEPT.
WALTHAM 54, MASS.

HERE'S HOW

(*continued from page* 18)

Assuming that the figures that you have given are correct, it would appear that you are working the present equipment to the limit of its capabilities. You fail to mention how much more speed you wish to achieve, therefore it is impossible to advise the necessary changes. A formula sometimes used for estimating speed capabilities is

$$\text{Speed} = K\sqrt{\frac{\text{b.h.p.}}{\text{Displacement}}}$$

in which K is a constant which for the most modern design high speed planing hull of 14′ is 1.7; b.h.p. is the brake horsepower of the engine and displacement is in long tons. The result obtained is in knots and should be multiplied by 1.15 to arrive at a speed in statute miles. Using the values you have given, the expected speed from your equipment would be 28.8 mph.

Since your boat has a speed of 31 mph it is operating at a speed-length ratio of 7.5 any further increase should not be undertaken until the hull has been carefully checked to insure its capability of withstanding a higher speed.

DISPLACEMENT BOATS

I HAVE a 26′ Richardson cruiser, round bottom full displacement, powered with a rather old (but good) Gray motor. This motor should develop 52 horsepower at 2600 rpm. I can get only 1950 rpm., (and about 10-12 mph) after a good tune-up. I do not know propeller size and pitch, and wonder if this is my trouble; if so (or if not) what is proper size and pitch for boat and motor?

This boat is fairly old, but in excellent condition and I would like to have a bit more speed. I understand that the boat will not plane, though should have a top speed of about 16 mph. Should this be true, then what could I expect with a 150 hp, marine motor with proper propeller? Or with a 250 hp automobile motor?

I would greatly appreciate your comment.

P. R. Marsh, M. D.
Oak Ridge, Tenn.

The speed at which a displacement hull, of normal proportions, can be driven, is a function of its length. This is due to the wave system that the boat creates at higher speeds. The craft moves at the speed of the wave system it is creating. Since this speed depends on the distance between wave crests, a distance dependent on boat length, a long boat of the displacement type will have a greater speed potential than a short one.

The basis for determining boat speed is called the speed-length ratio. It is found by dividing the speed in knots by the square root of the waterline length in feet.

Let's assume that the boat in question has a waterline length of 25′. The square root of 25 = 5. A speed of 12 mph is 10.4 knots. 10.4 divided by 5 = 2.08, the speed-length ratio when the boat is moving with a velocity of 12 mph.

If your speed measurement is accurate, it would indicate that the boat is not a true displacement hull, for operation of a displacement hull at speed-length ratios above 1.34 is almost impossible. It is quite possible that your boat is of the semi-planing type which operates well with moderate amounts of power at the speed you have indicated. On the basis of a displacement of two tons (4480 pounds) I would estimate your power requirement at 35-40 horsepower for a speed of 11.5 mph. Assuming that your engine will develop 50 hp at 2500 rpm, a propeller of 12″ diameter and 6½″ pitch should be sufficient.

The installation of a larger motor might not be a solution to your problem since greater horsepower would call for a larger diameter propeller. For 150 hp at your present engine speed, propeller diameter might increase to 15″-16″. Since there should be a clearance between the tips of the propeller and the hull of 1/7 of the propeller diameter, and preferably more, difficulty might be experienced in fitting the larger propeller.

Since you state that the boat is old, it may have undergone many changes in power and propeller size. Had you thought of writing the Richardson Boat Co., North Tonawanda, N. Y., for their recommendations? If you write, give them complete information as to model and year of construction.

Radical changes in a boat's power plant are usually expensive and do not always produce the expected results. Weigh these costs against the added couple of miles more speed and the greatly increased cost for gasoline, then ask yourself "is it worth the extra cost?"

SAILING RIG FOR CAPE COD DORY

I HAVE A Cape Cod Dory—16′ with a Dolphin rig. It is a centerboarder and I would like to change the rig if it is possible, and if I must, will put a keel on it. She handles well but needs plenty of push to get her going and was wondering what type of marconi or gaff rigging I could install.

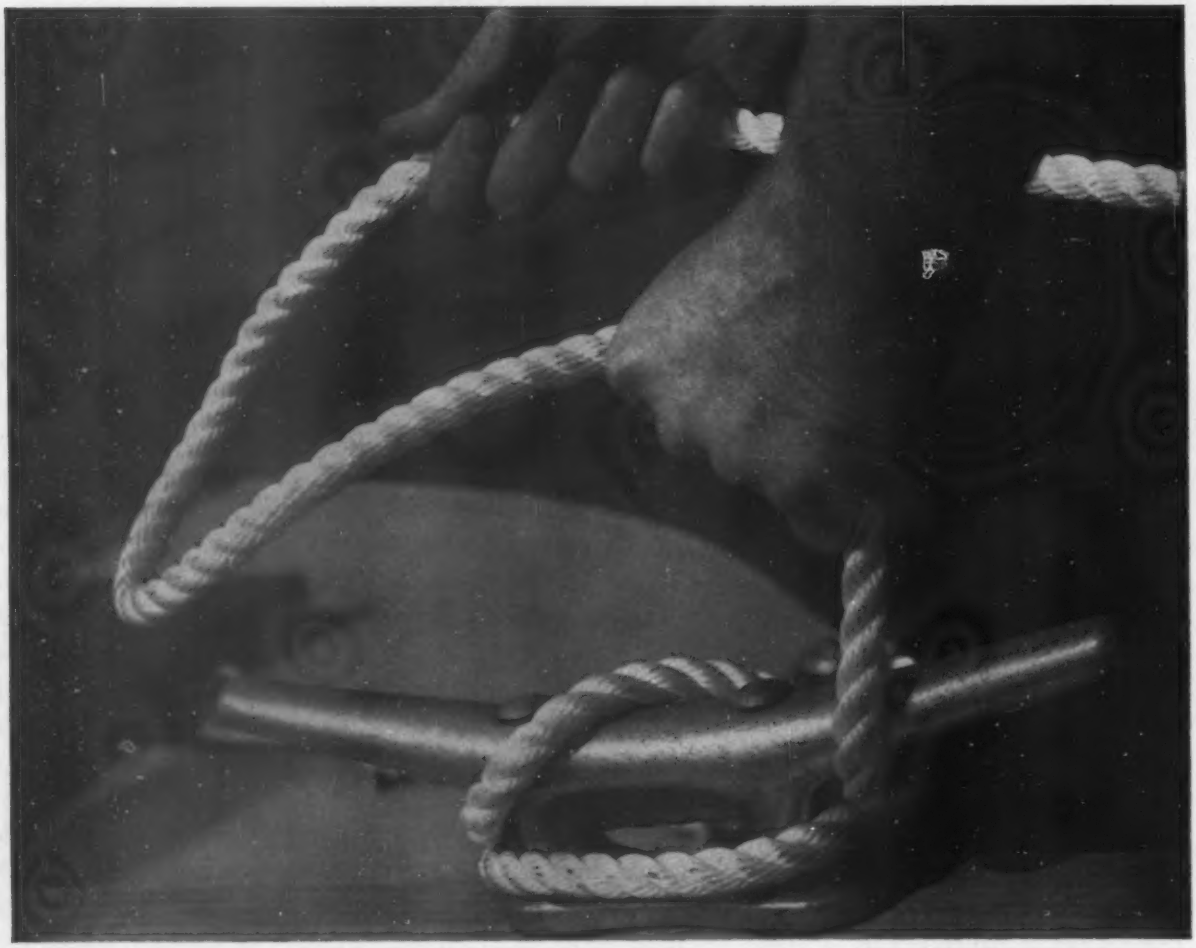
Charles J. Hajik
New York Military Academy
Cornwall on the Hudson, N. Y.

The force required to drive a sailboat is a matter of hull resistance. This is not altered by changes in sail plan. The changes you suggest should only be undertaken on advice of a naval architect.

see preceding page

You can't walk away from a fire at sea!

You put it out or else. When you're caught with an exhausted fire extinguisher at sea it's kind of like driving your car without a spare tire . . . only a lot more dangerous. ■ The problem of spare fire protection, in fact, the whole matter of developing a really practical small marine fire extinguisher is something our technical fellows at Ansul have been working on for a number of years. They demanded an extinguisher that not only would meet the new Coast Guard regulations, but one that would stow easily and compactly in a boat's cramped quarters and most important, *one that could be quickly recharged right on the spot.* ■ The recharge problem was an especially nasty one. If you've faced the problem you know that it's impossible to recharge a conventional fire extinguisher at sea. Matter of fact, filling and charging a fire extinguisher is done best under factory controlled conditions. We want our fire extinguishers to work the first time, *every time.* This is the heart of our business. ■ About a year ago our research people came up with a strange looking, spherical, dry chemical fire extinguisher which packs 8 times the fire-smothering punch of the outlawed 1 quart carbon tet extinguisher. Besides that, you can recharge the MONITOR (that's the name we gave it) just as easily as you change a light bulb. When you've used up the extinguisher on a fire you screw out the ball, throw it away and in seconds screw in a fresh, factory-warranted, Underwriters' Laboratories approved recharge. ■ The boatsman, or for that matter the home-owner, the car-owner or the summer cottage people, can keep recharge balls on hand and be assured of continuous fire protection. ■ The MONITOR does not depend upon a gauge because its performance is sealed in at the factory and guaranteed by the Ansul Chemical Co. ■ Some folks look at the MONITOR and think it looks a bit bulky for a boat. "Not true" say the engineers—sort of an optical illusion. The spherical MONITOR is about an inch wider than a conventional cylindrical extinguisher, but it's six or seven inches shorter. ■ In the past year we've been overwhelmed at the way people have taken the MONITOR to their hearts—and to their boats. You can buy the complete Coast Guard approved 2½ pound MONITOR from your marine dealer for $18.95 *(including mounting bracket).* The 2½ pound recharge costs $5.95. You can buy the two together in one package for $24.50 . . . just about the price of a single conventional extinguisher. Why not talk to your dealer about the MONITOR or write us directly. Better yet, if you're cruising the Great Lakes next summer stop by and see us. We have a fine marina and we'd like to show you our 100 acre fire testing field and have you meet our people.



You know your boat's secure with strong, durable NYLON

EASY TO HANDLE—Nylon line is splinter-free and smooth to the touch. It's more flexible than ordinary rope. Coils in half the space . . . weighs half as much.

ECONOMICAL—The ½" nylon line is over 20% stronger than the ¾" manila line. Since smaller nylon lines do the job . . . last longer . . . they can save you money.

Behind that smooth, white luxury look lies the world's strongest fiber. Line of Du Pont Type 707 nylon is, size for size, twice as strong as manila . . . absorbs 8 times more energy . . . lasts 3 to 5 times longer. Salt water can't hurt nylon, and it resists abuse from flexing and abrasion. Stores wet, too, without damage from rot or mildew. For the safety of *your* boat, be sure you fit out with rugged lines of nylon. You really can't afford not to.

FREE—a booklet on lines of Du Pont nylon. Write E. I. du Pont de Nemours & Co. (Inc.), Textile Fibers Dept., 31E (1) Centre Road Building, Wilmington 98, Delaware.

DU PONT NYLON

DU PONT

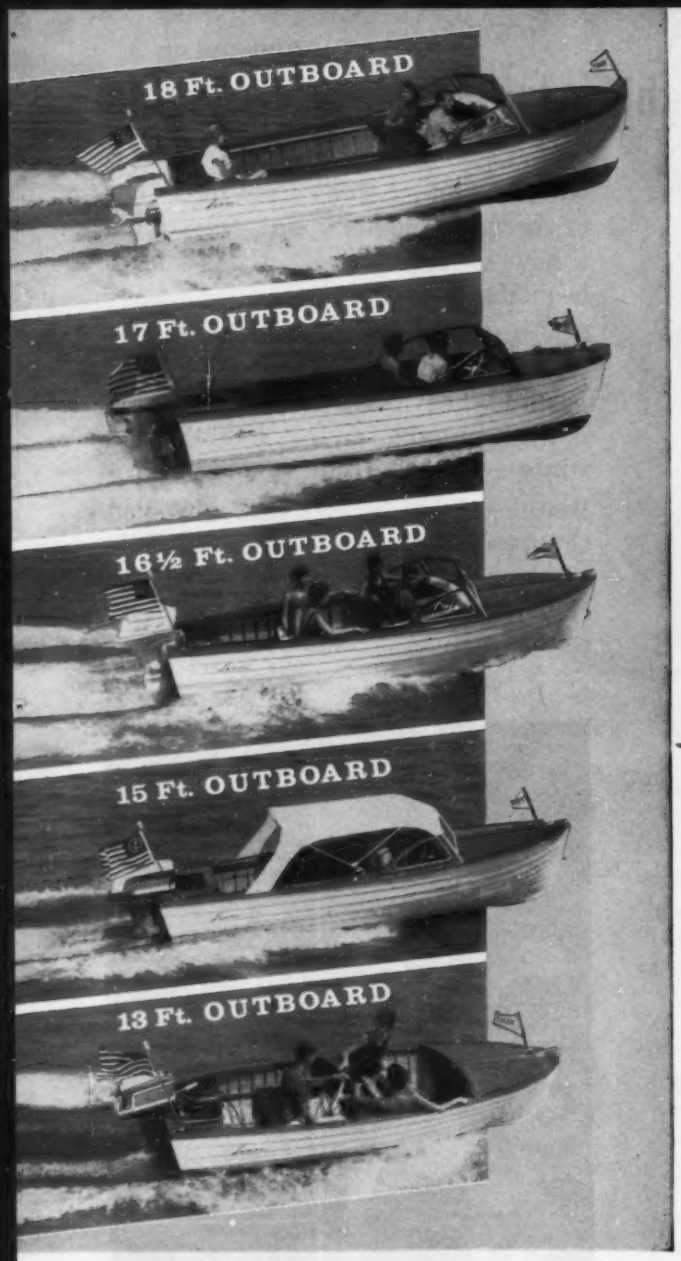
REG. U. S. PAT. OFF.

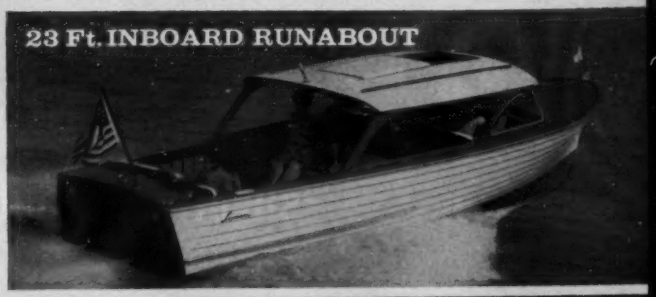
BETTER THINGS FOR BETTER LIVING . . . *THROUGH CHEMISTRY*

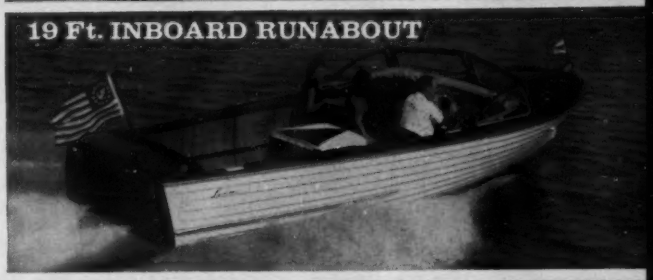
CLINKER-BUILT *Lyman* '60

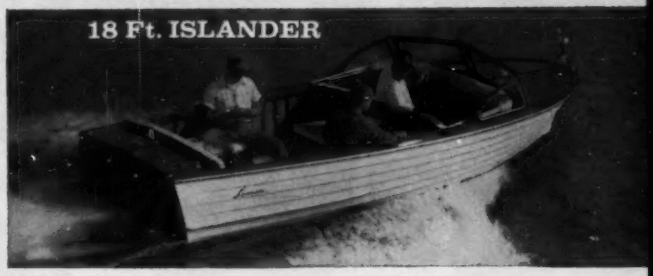
Inboards and Outboards for '60

85 years of unequalled Seaworthiness, Beauty, Performance and Comfort . . .









All Lyman inboards and outboards are Clinker-built of the finest marine plywood for exceptional seaworthiness, dry and level riding, lasting beauty, durability, economy. They are designed throughout for perfect performance and always with the comfort of you and your passengers in mind. For all this, they are very reasonably priced.

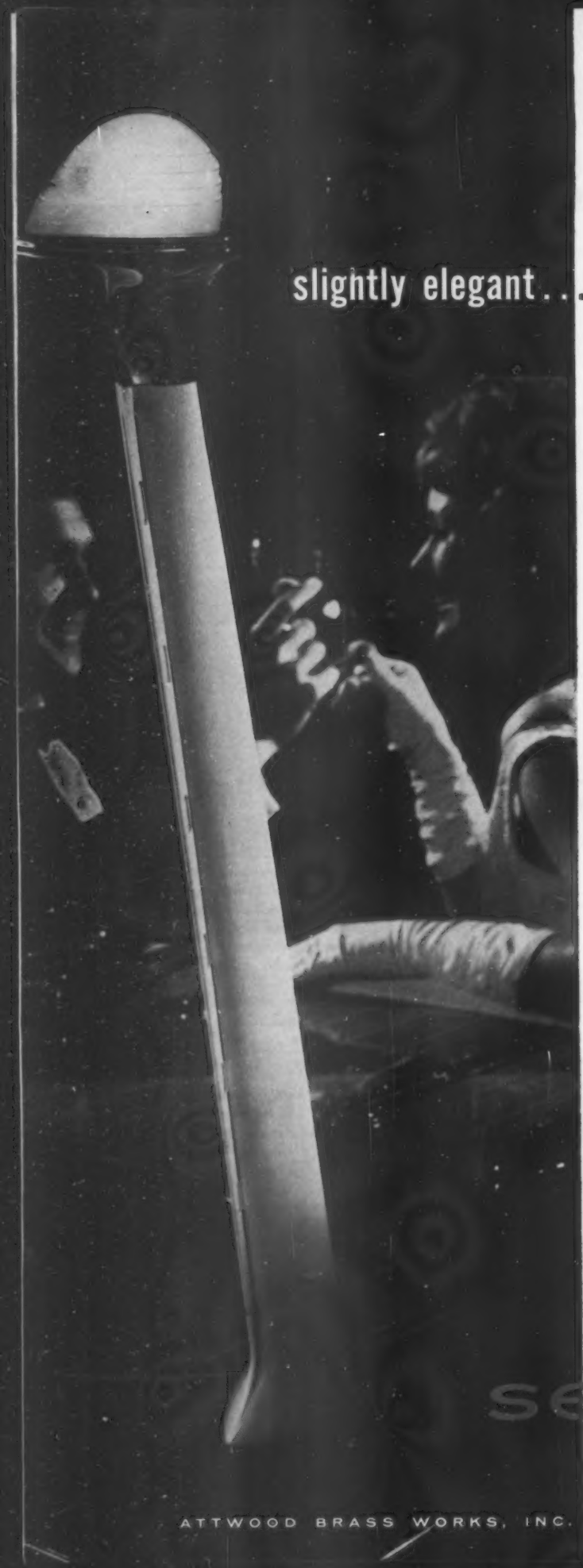
The 1960 line of Lyman inboards and outboards is distinguished by new deck trim . . . features for even greater convenience . . . and smart new accessories.

The new permanent top (available for the 18' outboard, the 19' and 23' inboard runabouts and The Islander) is beautifully made of reinforced Philippine mahogany with a sliding hatch. Adjustable air vents are built into the top over the windshield.

Pearl gray canvas folding tops with snap-on side curtains are available for all models except The Leader and 13' outboard . . . These are only two of the many excellent accessories especially designed for Lyman models.

Before you buy any boat, look at the Lyman line. A beautiful new brochure in full color, describing in detail all Lyman models and their accessories is yours for the asking. Send for this free literature and the name of your nearest dealer now.

***Lyman* BOAT WORKS** *1627 FIRST ST., SANDUSKY, OHIO*

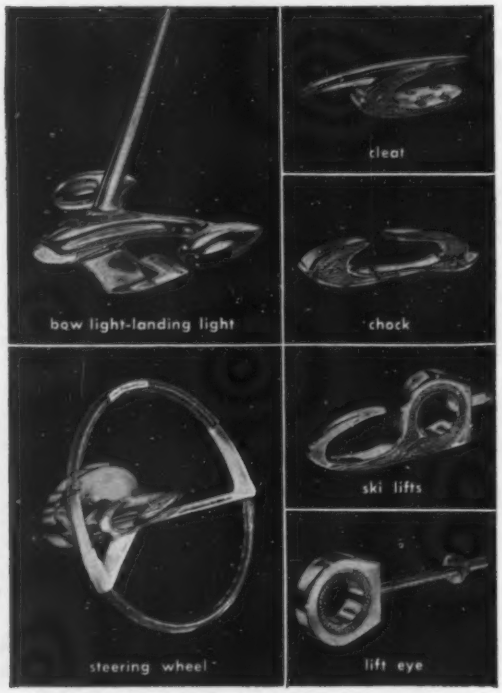


slightly elegant . . . this new look in stern lights

Attwood did it! Took stern lights out of the "pole and light" era. Gave them a new style to go with today's most beautiful boats.

Gave them season after season of carefree good looks, too. All exposed metal parts are heavily chrome plated. Shaft is high impact Implex, impregnated white — can't corrode or fade.

Better marine dealers can show you this new stern light now, $15.65. While there ask to see the other new Seaflite Riviera fittings by Attwood — or write us for a Riviera folder.



seaflite riviera

FITTINGS SEEN ON TODAY'S SMARTEST BOATS

ATTWOOD BRASS WORKS, INC. 317 Douglas N.W., Grand Rapids 2, Michigan

BULKHEAD BULLETINS

CALENDAR OF EVENTS FOR NASSAU & BAHAMAS

Feb. 2—Miami-Nassau Ocean Yacht Race.
Feb. 6—Governor's Cup Race.
Apr. —Miami-Nassau Ocean Power Boat Race.
Apr. 21-23—Out Island Sailing Regatta.
Apr. 24-May 6—Bahamas Regatta Weeks.

BOAT SHOWS

Jan. 26-Feb. 7—Kansas City Boat, Sports & Travel Show, Municipal Auditorium, **Kansas City, Kans.**
Feb. 5-13—Canadian Boat Show, Exhibition Park, **Toronto, Can.**
Feb. 5-14—Chicago National Boat Show, **Chicago, Ill.**
Feb. 6-14—Kentucky Sport, Boat & Travel Show, Kentucky Fair & Exposition Center, **Louisville, Ky.**
Feb. 9-14—Kansas Sports, Boat & Travel Show, **Wichita, Kan.**
Feb. 10-14—Spokane Boat Show, **Spokane, Wash.**
Feb. 13-21—Portland Boat Show, **North Portland, Ore.**
Feb. 19-24—Miami International Boat Show, **Miami, Fla.**
Feb. 19-28—St. Louis Boat, Sports & Vacation Show, Arena, **St. Louis, Mo.**
Feb. 20-28—New York Outdoor Exposition, **New York, N. Y.**
Feb. 20-28—Buffalo Boat, Travel & Sports Show, **Buffalo, N. Y.**
Feb. 20-28—Jersey Coast Boat Show, Convention Hall, **Asbury Park, N. J.**
Feb. 20-28—Detroit Boat Show, Cobo Hall, **Detroit, Mich.**
Feb. 21-28—New England Boat Show, **Boston, Mass.**
Feb. 21-28—Colorado Sports, Boat and Travel Show, **Denver, Colo.**
Feb. 26-Mar. 4—Southeast Boat & Vacation Show, **Atlanta, Ga.**
Feb. 26-Mar. 5—Philadelphia Motor Boat & Sportsmen's Show, **Philadelphia, Pa.**
Feb. 27-Mar. 6—Ohio Valley's Boat, Sports, Vacation & Travel Show, **Cincinnati, Ohio.**
Feb. 28-Mar. 6—Colorado Sports, Boat & Travel Show, **Denver, Col.**
Mar. 1-6—Southwest Boat Show, Memorial Auditorium, **Dallas, Tex.**
Mar. 2-7—Chesapeake Bay Boat Show, Fifth Regiment Armory, **Baltimore, Md.**
Mar. 3-6—Southeastern Boat Show, Gator Bowl, **Jacksonville, Fla.**
Mar. 4-13—San Francisco National Sports & Boat Show, **San Francisco, Calif.**
Mar. 5-13—Long Island Boat & Sportsmen's Show, **Jamaica, N. Y.**
Mar. 9-13—Richmond Boat Show, Arena, **Richmond, Va.**
Mar. 16-20—Narragansett Bay Boat Show, **Pawtucket, R. I.**
Mar. 17-20—Connecticut Boat Show, **New Haven, Conn.**
Mar. 17-20—Sun Coast Boat Show, **St. Petersburg, Fla.**
Mar. 18-27—American & Canadian Sportsmen's Vacation and Boat Show, **Cleveland, Ohio.**
Mar. 19-27—Milwaukee Sentinel Sports-Boat-Vacation Show, **Milwaukee, Wis.**
Mar. 19-27—Greater Michigan Boat Show, Detroit Artillery Armory, **Oak Park, Mich.**
Mar. 22-27—Iowa Sports, Boat & Vacation Show, **Des Moines, Iowa.**
Mar. 23-27—Narragansett Bay Boat Show, **Pawtucket, R. I.**
Mar. 24-27—Dispatch Journal Charities Boat Show, **Columbus, Ohio.**
Mar. 28-Apr. 3 — Tennessee Valley Sports Show, **Knoxville, Tenn.**
Apr. 2-10—Southwest Sports, Boat & Vacation Show, Fair Park, **Dallas, Tex.**
Sept. 16-18—International Marine Industry Boat Show, General Exhibits Bldg., **Fort Worth, Tex.**

Finest boat of a lifetime...for the time of your life!

CELEBRATE YOUR NEW '60 Thompson WITH YOUR OWN FESTIVE CHAMPAGNE LAUNCHING PARTY

FREE GOLD SEAL N. Y. STATE CHAMPAGNE* with every THOMPSON

GREATEST INVESTMENT EVER MADE FOR FAMILY FUN AFLOAT

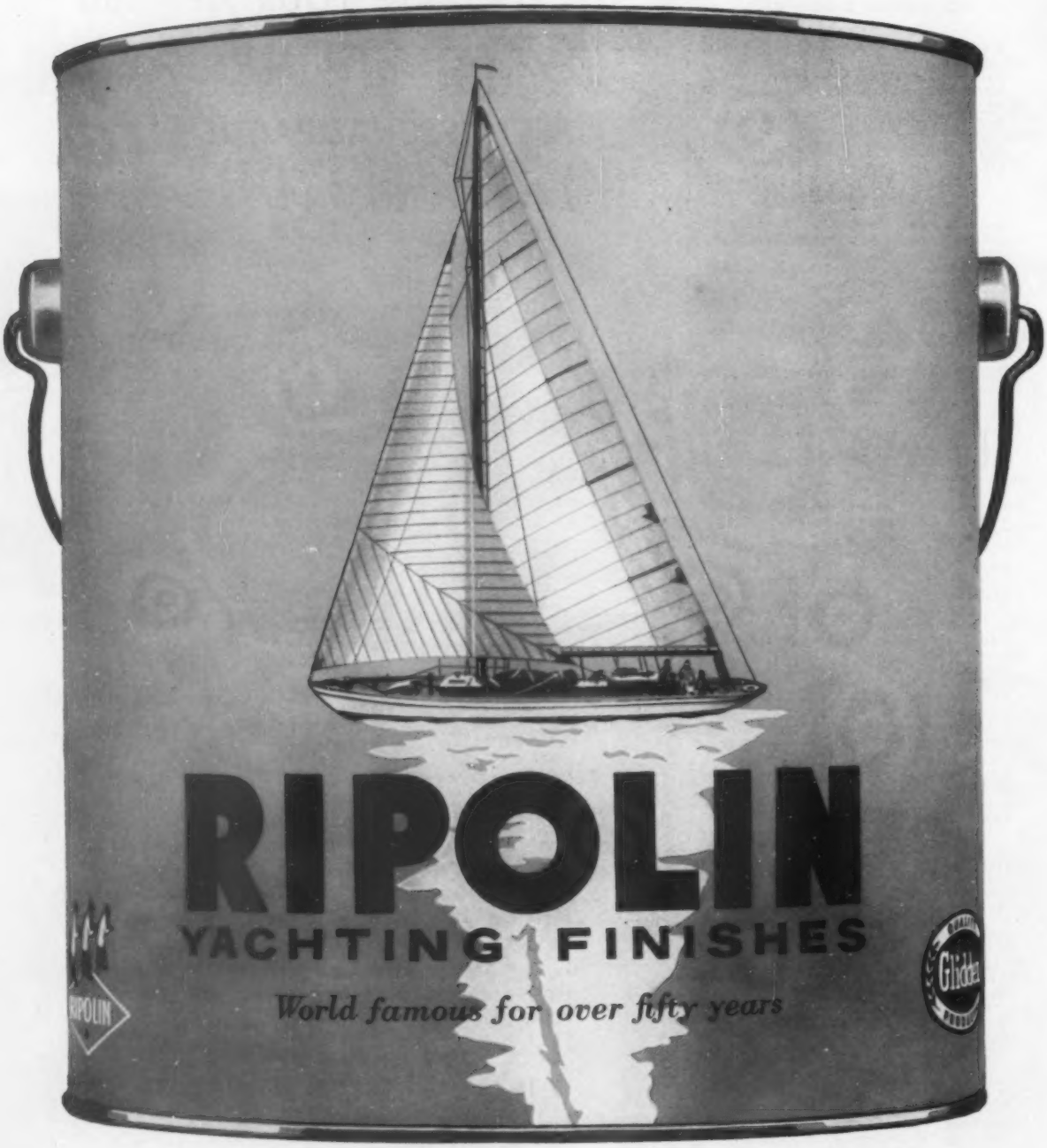
The pure joy of owning a new '60 Thompson is all the sweeter because you can't buy more "boat-per-dollar." Compare Thompson for solid sea-worthiness — for more riding quality — more space and relaxed comfort. Delivers blazing power with single or dual motor . . . yet handles with a velvety touch. There's launching fun (even to the Champagne) at your Thompson dealer. Better go NOW!

7 IMPORTANT IMPROVEMENTS FOR 1960

Nothing says quality like a '60 Thompson! • New Uni-hull construction locked in by 2870 silicon-bronze bolts • New hi-style flared bow • New triple-braced transom • New bolted cleats • New ventilated keel • New protective dipped planks • New safety-glass windshields. Models from 14 to 21 ft.

Thompson of N.Y.
Cortland, N. Y.
*OFFICIAL CHAMPAGNE FOR QUEEN ELIZABETH SEAWAY CEREMONY
America's largest selling lapstrake outboard

Outstanding yachting finish in Europe



A COMPLETE LINE OF RIPOLIN MARINE FINISHES

- Hull, Deck and Topside Enamels in 22 authentic colors, resistant to marine hazards.
- Semi-Gloss Interior Cabin Finishes, alkyd fortified. In a wide range of pastel colors, or custom tints.
- Stains and Varnishes, specially formulated for marine use.
- Bottom Paints—anti-fouling or racing bottom finish.
- Engine Enamels, and Liquid Red Lead, the easy-to-apply rust-retardant metal primer.
- Fine marine brushes.

RIPOLIN

THE GLIDDEN COMPANY

CLEVELAND 14, OHIO

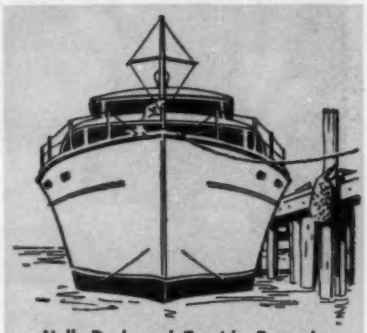
In Canada: The Glidden Company, Ltd., Toronto, Ontario

Ripolin Marine Finishes also sold by dealers for General Paints, Mound City

QUALITY Glidden PRODUCTS

for over 50 years

Now RIPOLIN finishes are acclaimed from Maine to California



Hull, Deck and Topside Enamels

RIPOLIN yachting finishes, introduced in America only last year by The Glidden Company, have already received outstanding acceptance by boat owners across the country.

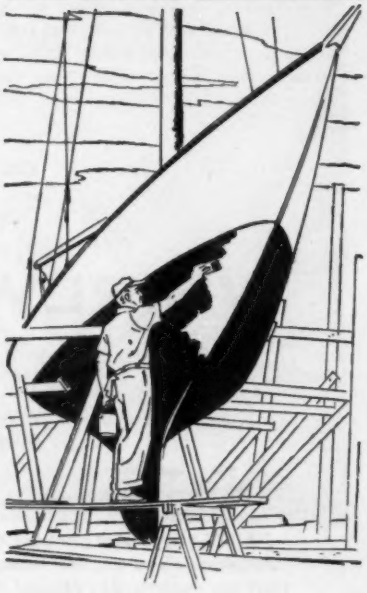
The reason is evident.

RIPOLIN full-season finishes preserve the fresh, trim appearance of a newly painted ship through the entire boating season—no need to spend long summer week-ends scraping, sanding and repainting.

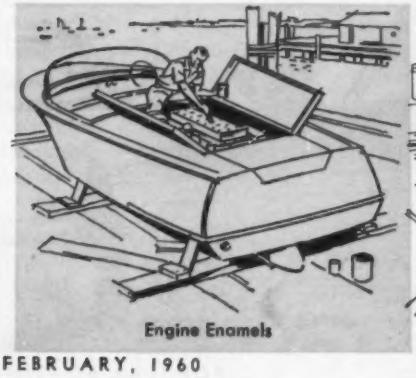
Whatever your pleasure, power or sail, fresh or salt water, there are RIPOLIN products formulated to fit your requirements—from high gloss topside enamels and anti-fouling bottom paints to dependable, rugged engine enamels.

This spring, start with the best; start with RIPOLIN full-season finishes. Now made by Glidden in the United States and Canada under exclusive license from Le Ripolin, and available from Glidden paint dealers or your marine supplier.

Dealers write for franchise information



Anti-Fouling Bottom Paints



Engine Enamels

Semi-Gloss Interior Cabin Finishes

Stains and Varnishes

BOAT CLUB BEACONS

NATIONAL SAFE BOATING ASSOCIATION FORMED

Directors of the recently-organized National Safe Boating Association are, seated left to right, Matthew Kaufman, Jr., Outboard Boating Club of America; Gale Chapman, Upper Mississippi Towing Corp.; Fred Lifton, Outboard Boating Club of America; and Louis R. Fiore, Ohio River Co. Standing, left to right, are Peter Wilson, National Association of Engine and Boat Manufacturers; J. A. Hogan, C. T. Willis, Inc.; J. V. Smith, Mississippi Valley Association; Jerry Hurter, Ohio Valley Improvement Association; and Homer Bow, Evansville (Ind.) Courier. Waterway cooperation is the aim.

THE FIRST MEETING of the Board of Directors of the newly-organized National Safe Boating Association took place recently in Chicago. The organization plans to publish pamphlets, arrange representation in all parts of the country, assemble information on legislative matters of interest, cooperate in the observance of National Safe Boating Week, July 3 through July 9, 1960, and encourage measures which promote safety, especially in connection with harbors and locks. The association represents recreational and commercial users of the nation's waterways and other groups interested in water resource development. Cooperating with the association are governmental agencies such as the U. S. Coast Guard and Army Corps of Engineers. The primary aims of the NSBA are to promote safety, foster understanding and cooperation between commercial and pleasure boating interests, and develop adequate aids to navigation.

BAHAMA MARINA

A PRIVATE CLUB for boatmen which will border on fishing waters rated among the finest in the world is now being constructed on Treasure Cay, Abaco, in the Bahama Islands. Planned initially for limited membership, with (*continued on page* 32)

Get more knots per horsepower with Whirlwind's newest . . . the Jupiter 20′ Cabin Cruiser. Clean marine design knifes through the choppiest waters. Feather-light, steel-strong hull of one piece molded mahogany

WHIRLWIND'S GOT Git!

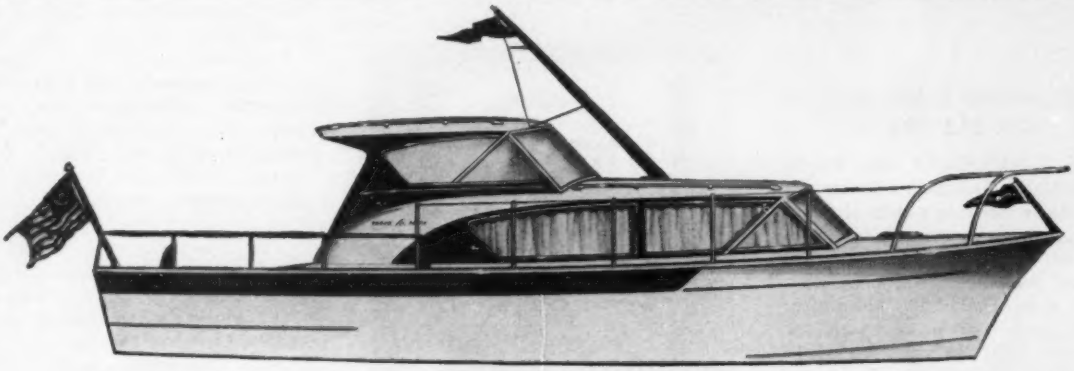
planes at a throttle's nudge. Revel in wide beam stability, luxury liner space, construction, fittings, and finishes that show the pride of honest craftmanship. Maintenance? Not worth mentioning. The most boat afloat . . . just $2475 (Equipped).

NEW! Epoxy finished sportsters. Glass-smooth sportsmen's colors stay new through years of water and weather. 13′, 14′, and 16′ models.

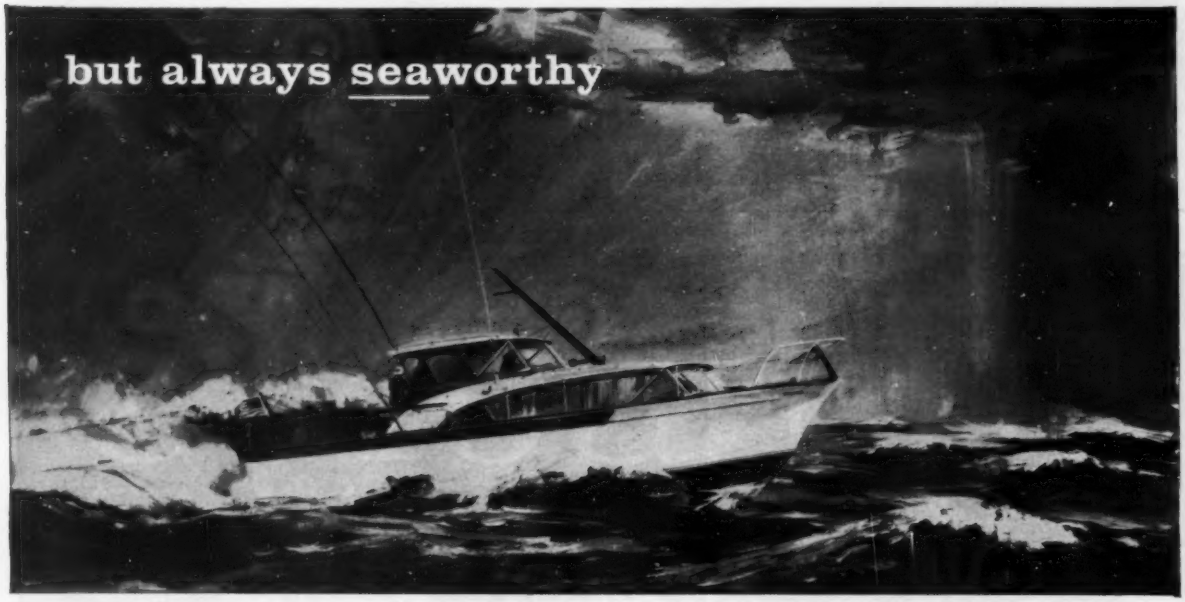
FREE CATALOG . . . 22 boat Stardust fleet, starting at a down-to-earth $290. See your WHIRLWIND dealer or write:

Molded Products, Inc.
850 York Rd., Cockeysville 2, Md.

CRUIS ALONG



refreshingly seeworthy



Her sweeping, flowing lines catch your eye first. This is modern design! But that's only part of the new "Cruis Along look"... look closer. See the spacious cockpit, beautifully protected by mahogany-capped railings. See the exceptionally wide walk-around decks, the flared clipper bow. And inside, tasteful elegance highlights the extraordinary roominess of the cabin and galley, both luxuriously appointed for living-aboard comforts. But, in addition to *see*-worthiness, Cruis Along offers that invaluable extra measure of *sea*-worthiness! Unexcelled construction materials and meticulous craftsmanship result in exceptional stability and lively maneuverability.

Take your El Dorado anywhere with confidence and enjoy the greatest thrills that cruising can offer!

See the Cruis Along line for 1960 at your dealer's or our Manhattan showrooms. Also on display at the New York Boat Show, January 16-24.

CRUIS ALONG

cruise with confidence

CRUIS ALONG BOATS, INC., SOLOMONS MARYLAND, ***Sister Ships of Century Runabouts***
General Sales Offices and Showrooms, Department D, 1860 Broadway, New York 23, New York

BEACONS

(*continued from page* 30)

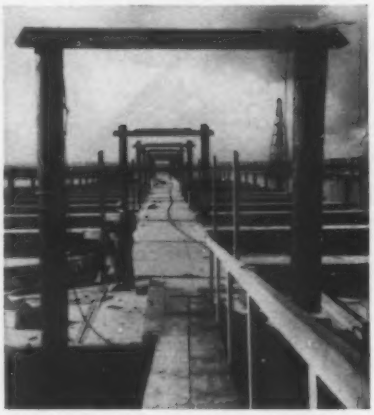
the possibility of hotels being added at a later date, it already has a small marina and dredged harbor for craft drawing up to nine feet. Waterfront lots for building private homes are also available. For further information, write to The Treasure Cay Club at the above address.

$7,000,000 MARINA FOR SEATTLE

BOAT OWNERS of the Pacific Northwest, and specifically skippers plying the picturesque waters of Puget Sound, are eagerly awaiting the completion of one of the world's newest and most modern marinas—Seattle's Shilshole Bay. The $7,000,000 project will ultimately provide a haven for 1600 commercial and pleasure craft in slips of 30 to 80 feet in length.

Shilshole, protected by a mile-long breakwater, is conveniently located adjacent to the entrance of the Government Locks in Seattle, starting point for most sound cruisers. The boat basin is primarily a Port of Seattle, U. S. Army Engineers venture, with the Army providing the three-quarter-mile rock breakwater at a cost of $2,000,000. The $5,000,000 balance of the project cost is being borne by the Port of Seattle which will be responsible for the operation and maintenance of the huge moorage development. The first phase of the construction will be completed this spring and provide moorage for about 400 boats. Fall of 1960 is the target date for final installation of all piers.

The floating docks will have such conveniences for the boat owner as



individual lockers, electrical power outlets and fresh water. Service piers will offer fueling service and will house shops where the boatman may purchase food and other necessities for his Puget Sound excursions or commercial operations. Both permanent and transient moorage will be available at rates consistent with those charged at comparable marinas.

APBA OFFICERS

MEMBERS of the American Power Boat Association have re-elected Gerald T. Hanley, Warren, R. I., president for a second term. To serve with Hanley, William E. John of Rye, N. Y., was elected senior vice president; V. J. Spinner, Jr., of Seattle, Wash., secretary, and Stu Gray of Miami, Fla., treasurer.

Other officials elected for 1960 at the annual meeting held at the Hotel Plankinton, Milwaukee, Wis., were: Jimmy Jost of Chicago, Ill., vice president of stock outboard racing; E. M. Peatross of Richmond, Va., vice president outboard racing; Frank Foulke of Essex, Md., vice president inboard racing; George J. Trimper of Buffalo, N. Y., vice president unlimited racing; and Donald R. Rimbach of Flushing, N. Y., vice president cruiser racing.

Elected to serve three-year terms as members of Council are: Hank Bowman of Solebury, Pa., Mel Crook of Montclair, N. J., Lou Eppel of Libertyville, Ill., S. E. Jones of Miami, Fla., and Ray Randal of Baldwinsville, N. Y.

CAPTAINS CLUB

THE CAPTAINS CLUB, a service club of the waterways, has franchised over 300 facilities between

(*continued on page* 36)

A FAMOUS NAME IN ANCHORING EQUIPMENT

BENSON'S

BENSON'S SNAG-PROOF ANCHOR

Can't be beaten for terrific holding power. Bites the bottom and holds until you're ready for sure, easy release. Easy, quick and sure.

LIFE-SAVER ANCHOR DAVIT

Adaptable to any type boat. Holds anchor on point of bow, ready for instant action; firmly secured for safety.

BEN-LOK DECK CHOCK

One-piece, self-locking Deck Chock. Place anchor into chock. Ring locks it securely. No fouling, no lashing, no clamps.

FREE-RUNNING ANCHOR LINE GUIDE

Mounted on deck to allow anchor line to run freely around contours of windshield, cabin, cockpit, etc.

PONTOON ANCHOR DAVIT

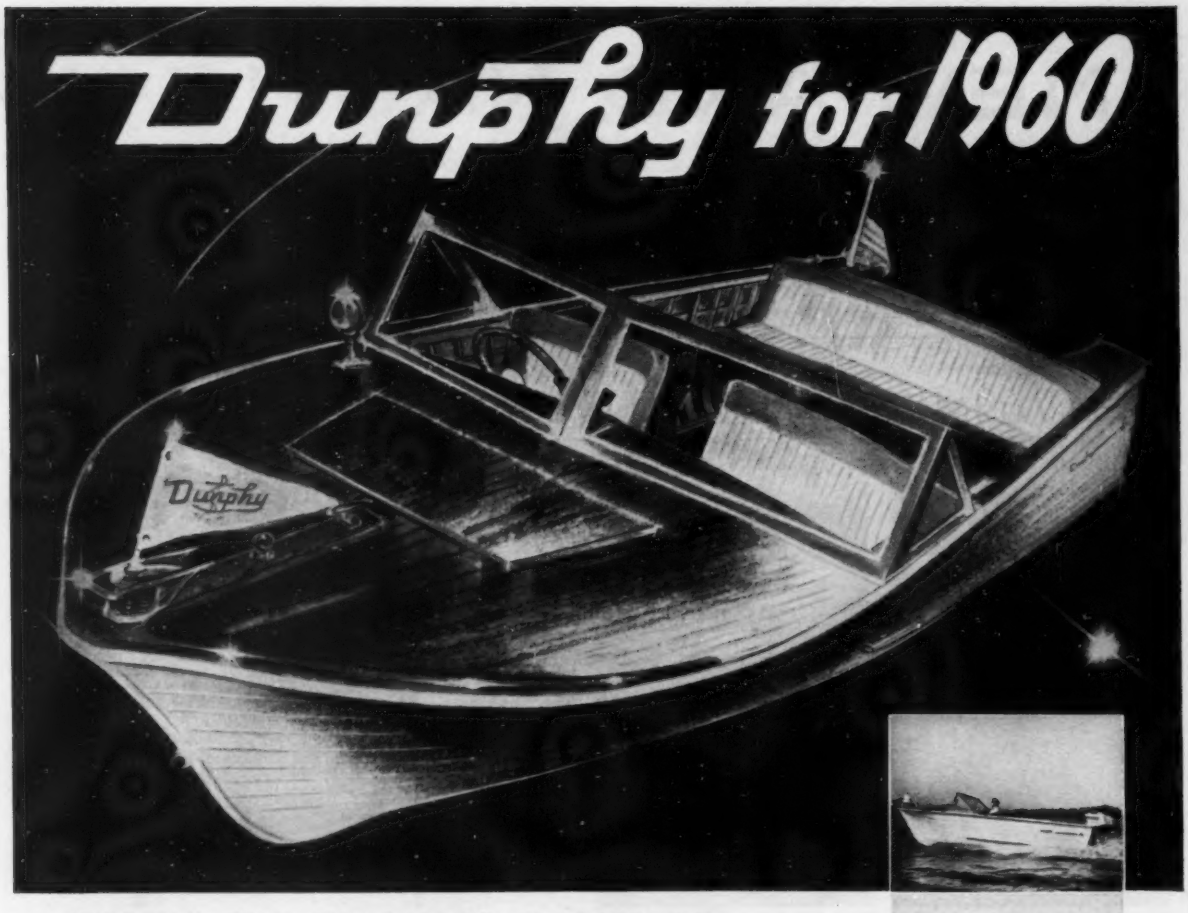
Specially designed for use on pontoon boats and catamarans. Safely holds anchor under decking. Pull or drop anchor clean, simple.

ELECTRIC POWER CAPSTAN

For safe and easy anchoring from cockpit. Let go of rope and anchor drops free . . . take up slack and Power Capstan delivers 500 lbs. of fast, reliable pull power.

WRITE FOR FREE LITERATURE 316 S. ORCHARD ROAD, SYRACUSE 4, NEW YORK

BENSON'S ANCHORS, INC.



OFFERS THE PRICELESS VALUE OF 107 YEARS' BOAT BUILDING EXPERIENCE

10 *New* DUNPHY LAPSTRAKES

Roomy, rugged and smooth-riding — runabouts, utilities, convertibles, and overnight campers — perfect family boats combining top performance with utmost safety and comfort. Now the greatest choice ever — 14, 16, 16½, 17, and 19 ft. sizes. — All handsomely styled with gracefully flared bows and sleek new lines throughout.

5 *New* DUNPHY MAHOGANY OUTBOARDS

Dashing, speed-designed beauties in the three most-wanted sizes — 14, 14½, and 16 ft. All these high-performance champions have extra-strength hulls — leakproof, completely seamless, molded from Nature's finest — and most beautiful — boat-building material.

Write Now For Complete Information

Dunphy

BOAT CORPORATION

532 Broad St., Oshkosh, Wisconsin

Wood is Naturally Best for Boats

NEW AND NAUTICAL

THIS DEPARTMENT, this month, has been expanded to include a preview of the new boats, motors, and accessories for 1960 that make up our special Buying Guide and Marine Directory in the second half of this issue. Giving specifications, prices, and the manufacturers' names and addresses, this issue can be a handbook throughout the year.

LAWNMOWERS CONVERT TO OUTBOARDS

Photo at left shows the ACCO motor being removed from the mower. Right, it is attached to lower unit and mounted on boat.

The Bremer lower unit attaches to the mower motor with three bolts. The complete assembly is shown at right.

AN OUTBOARD LAWN MOWER may sound crazy, but just such a unit has been tested and is now being manufactured by the ACCO Power Products Div., American Chain & Cable Co., of Exeter, Pa. With the simple removal of a few bolts, the 2½ hp Tecumseh gas engine is released from the ACCO mower and secured to a conventional-type outboard lower unit. On Lake Tacoma, the unit pushed a 200 lb. 14-footer with three passengers at speeds to 7 mph; with one aboard speed was 10 mph. The combination mower and outboard will sell for about $150.

LOWER UNIT which is made by the H. E. Bremer Mfg. Co., 4937 N. 32nd St., Milwaukee, is designed to take the 4 cycle, 3 hp. Briggs & Stratton lawn mower motor, as well as almost any other mower power plant. In tests on the Mississippi in a 12-foot boat with two passengers aboard, a 118 mile run for 17 hrs. was accomplished at an average speed of 6.4 mph with a gas consumption of 5½ gallons. The unit weighs 49 lbs., and features an underwater exhaust system. The complete unit with motor will sell for about $120. For details write manufacturers.

REFRIGERATORS FOR MARINE USE

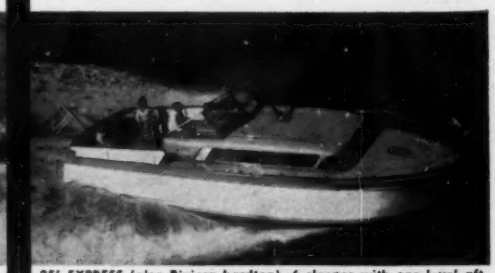
WRESTLING WITH ICE is kept to a minimum with two new refrigerating units available to boatmen. The Sedcooler, left, is made by Sedco, Inc., 2460 S. Main St., Adrian, Mich. It is a complete unit for converting any icebox to a refrigerator. Power can be 110 volt AC or 12 volt DC current. It is priced at about $395. The Seafridge, right, is a 1.2 cu. ft. refrigerator which is portable, fully automatic, and weighs only 50 lbs. It is sold by Foremost Commodities, 1472 Bway., New York 36, N. Y., and is priced at $139.50. Write manufacturers for full details.

1960 STEEL* ROAMERS

NEW TREND-SETTING MODELS — NEW CHRIS-CRAFT V-8 POWER — NEW COLOR-CUED INTERIORS! Here's boating's freshest, newest expression of style in STEEL. Six of ten eye-pleasing models with beauty achieved through dramatic lines, low profile and smooth curves. Cabins are beautifully appointed with decor in fresh, vibrant colors; expertly coordinated. And matching all this glamour is the sterling performance of the Roamer STEEL hull . . . the smoothest riding, safest, most sea-able in all boatdom. Your Roamer dealer has the details.

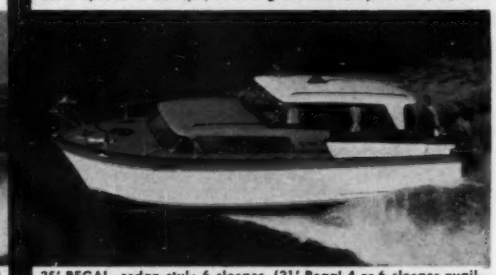
* ROAMER-CAPAC — Automatic Corrosion Eliminator now provides positive protection and is standard equipment on all models.

31' RIVIERA, thrift-priced 6-sleeper. Speeds to 34 mph with twin engines to 450 hp. (Express style also.) From $16,995.



35' EXPRESS (also Riviera hardtop), 6-sleeper with one-level aft deck. Speeds to 33 mph, twin engines to 550 hp. From $20,960.

35' SPORT FISHERMAN, all new, with big 16½' cockpit and luxurious 4-sleeper cabin. Twin engines to 550 hp. From $25,800.



35' REGAL, sedan-style 6-sleeper. (31' Regal 4 or 6-sleeper available.) Twin engines to 550 hp, speeds to 32 mph. From $23,300.

43' MOTOR YACHT, flush deck double-cabin cruiser. Twin engines to 550 hp, including diesel. Speeds to 26 mph. From $43,800.

52' MOTOR YACHT, with elegant salon, 3 staterooms. Twin engines to 672 hp including diesel, speeds to 24 mph. From $61,425.

ROAMER
STYLED IN STEEL

WRITE FOR YOUR NEW FULL-COLOR ROAMER 1960 CATALOG.

ROAMER STEEL BOATS
230 Lakewood Blvd., Holland, Mich.

DIVISION OF CHRIS-CRAFT CORPORATION

BEACONS

(*continued from page* 32)

Maine and Florida, and has established Port Captains at 63 harbors for 1960, it is reported. The Club program is now being started in the Midwest and Great Lakes and eventually is planned for the entire country.

Among services included in the program are special group marine insurance, complete cruising service to distant points, check-cashing privileges at Club facilities and Diner's Club cards. Their address is 381 Fifth Avenue, New York, N. Y.

U.S. POWER SQUADRONS REPORT

WINTER MONTHS curtail boating activities throughout most of the country, but the educational season is in full swing. This winter the United States Power Squadrons taught the largest number of Piloting class students in the 45-year history of the organization.

At Fort Lauderdale Squadron, 156 men and women Piloting students averaged grades of 90 or better. Sarasota Squadron had 98 persons taking the final exam. Bayside Squadron taught 125 persons in Bayside, Flushing and Forest Hills, N. Y. Ninety men and women studied Piloting at Charles River Squadron. Meriden Squadron had a registration of 107. A record registration of 89 was recorded at the New Linton class of Lake George Squadron. Buffalo Squadron had five different Piloting classes going at once. A total registration of 400 persons studied at Buffalo, Hamburg, Jamestown, Hornell, and Wellsville, N. Y. Hartford Squadron had an enrollment of 285 students; Norwich Squadron, 100 students; and Mohawk-Hudson Squadron, 82 registered for Piloting. Norwalk Squadron, after a slow start, ended with 238 in Piloting. At Northern New Jersey Squadron, 225 men and women took the Piloting course.

1960 OFFICERS

Richard S. Weber has been named Chief Commander of the 46,000-member USPS. Others named as Vice-Commanders included: Charles M. Bradley of Atlantic City, Executive Officer; Walter J. Sutcliffe of Northern N.J. Squadron, Administrative Officer; Lansing L. Lockwood of Mid-Hudson Squadron, Director of Education; F. Gilbert McGlaughlin of Yonkers Squadron, Secretary; and Frank J. Keller of Bayside Squadron, Treasurer.

Membership in the United States Power Squadron was 46,422 on October 31, 1959, and is expected to be close to 50,000 by the end of 1960, as reported by the National Secretary's office.

COAST GUARD AUX. NOTICES TO BOATMEN

BOAT SHOW TIME is upon us and thousands are flocking to auditoriums throughout the nation to see what is new for 1960. Many will become boat owners for the first time and others will step up to the larger cruiser class from the small runabout. Before venturing out to explore new horizons, the prudent skipper will check over his safety equipment, find out what is required by law and where he can take a few lessons in basic seamanship. There is no better way to get all this information than at the Coast Guard or Coast Guard Auxiliary booth at the local boat show.

The Auxiliarists manning these booths have been furnished with leaflets to assist them in offering ready and handy information. One pamphlet titled "Know How to Cruise in Safety" advises on the several standard public instruction courses and special boating safety programs that are presented by the Auxiliary. Another leaflet is titled "Seal of Safety" and explains the courtesy motorboat examination program. Designed specifically for 1960, the colors used, yellow and green, will also be those of the decals to be issued qualifying boats during the coming season. Each leaflet lists the addresses of the Directors of Auxiliaries in each District and the local flotilla. — ⚓

Sterling Mark of Quality in Aluminum Watercraft

Grumman QUALITY

TODAY'S BEST BOATING BUY

Add up the costs—Boat, Motor, Accessories and Trailer—Grumman makes the best package price on the boat market today. Light constant weight cuts down horsepower needed and permits transport on single axle trailer.

Here Is The Most Boat For Your Money . . . and there is a Grumman Boat or Canoe for every water activity.

Complete line of famous Grumman Canoes: 12 models from 13-ft. to 20-ft. with sailing rigs for all. Choose your Grumman Boat: Big 19-ft. "G-19" Sportsters; 17-ft. "GC" Plastic; 15-ft. Deluxe Runabouts; 15-ft. Sport Boats; 14-ft. Fisherman; 14-ft. Jr. Runabouts; 12-ft. Cartoppers; 8½-ft. Rhodes Designed Dinghys.

• Full Salt Water Protection • Flotation Safety

• Rugged Construction

FREE! Send for new full color **GRUMMAN** Catalog

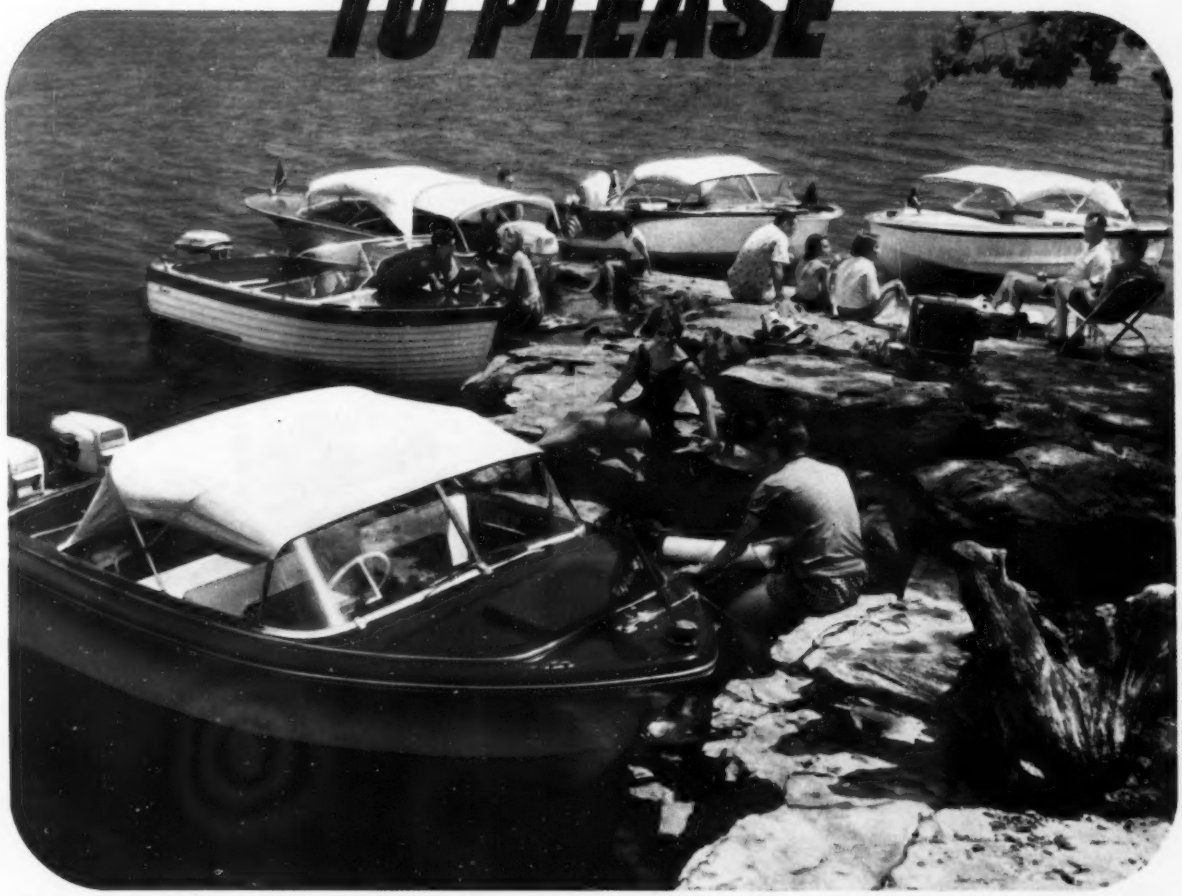
A Product of the World's Foremost Builder of Amphibious Aircraft

GRUMMAN BOATS, INC.

7720 South Street, Marathon, N.Y.

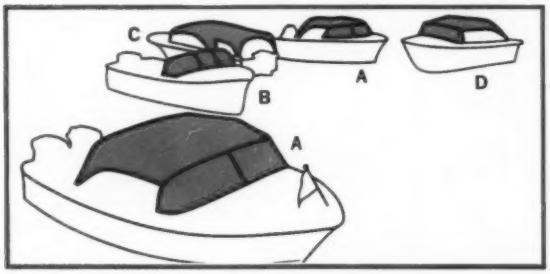
first and finest in aluminum watercraft

TAYLOR ★ MADE TO PLEASE



Picture a new Taylor Top and Windshield on your boat!

A sleek sweep of modern lines...the glitter of a sparkling windshield...that's the new Taylor Made Holiday Convertible! Choose a wrap-around windshield of Taylor Made Safety Glass for your boat ...or a Holiday Plexiglas Windshield with new graceful compound curvature. Top it off with a snug fitting, smartly-styled Holiday Top for lasting good looks and real comfort. Insist on a Taylor Top and Windshield for your own boat or on the boat you buy...all are *Taylor Made to please!*



A. NEW! SAFETY GLASS HOLIDAY CONVERTIBLE—Boating's most wanted convertible now with famous Taylor Made Safety Glass. From $127.55 complete.

B. NEW! 3-PIECE WINDSHIELD—Center panel opens for controlled ventilation and easy access to forward deck. Featured on the finest boats for '60.

C. NEW! AFTOP—As smart as it is practical, snaps on to the Holiday Convertible Top—keeps back seat riders shaded and dry. From $21.50.

D. NEW! HOLIDAY CONVERTIBLE—Compound curvature of Plexiglas windshield gives new smart styling plus extra rigidity and strength. "Top-Lok"* fasteners on Holiday Tops eliminate unsightly studs on windshield frame. From $97.70.

*Pat. Pending.

FREE: *Write for full color brochure on the complete Taylor Made line to:*

Taylor ★ MADE

N. A. TAYLOR CO., INC., GLOVERSVILLE 14, N. Y.

NEW FROM GALE...

1960's power-packed line of "Go-Anywhere" outboard motors!

ANYWHERE is your playground when you go outboarding. And there's no finer way to GO than with a Gale outboard motor. Just look! Modern style stands out in sparkling colors. Superb engineering stands out in flashing performance. Precision design stands out in the smooth, quiet operating ease that makes any of the new "Go-Anywhere" Gale outboards so satisfying to own.

Take the mighty V SOVEREIGN. Never before has balance met brawn in such a perfect power package. Or Gale's Sovereign 35, *the* electric-starting beauty that outvalues any other outboard in its class. Or choose any of Gale's stylish Buccaneer motors...35, 25, 15, 5 or 3 hp...and get a value-packed outboard that delivers rugged reliability and durable long life. For every Gale outboard is "Tank-Tested" at the factory—your guarantee of dependable performance from the first easy start. No trouble. No strain. Just fun.

All the new "Go-Anywhere" Gale outboards are on display at your dealer's now. See them. Try them. Compare them. You'll discover for yourself that no other motor gives you more in downright carefree boating pleasure. This year, skipper...make yours a Gale outboard and step ahead of the crowd.

Find your Gale dealer in the "Yellow Pages" and see him this week. Or write for colorful free catalog to: Gale Products, Dept. 1420, Galesburg, Illinois.

featuring...

the mighty

V Sovereign

NEW! 60 hp, 4 cylinder V-block engine delivers big power thrust to plane the heaviest cruisers with no loss of lugging power...the bursting speed to pull a squad of skiers. Power impulses every 90° turn of the shaft deliver smoothness no other design can match.

NEW! Gale's 5-point Top-To-Bottom silencing makes this the quietest of big power outboards. 1) Powerhead floats on a cushion of rubber; 2) fiberglass covers trap sound; 3) shock absorbers isolate vibration; 4) exhaust is deep underwater; and 5) constant-contact spiral gears are super-quiet.

NEW! Slim, trim "Torpedo" lower unit adds zip to boat's performance. Gear and shaft assembly mounted on anti-friction bearings (like all other thrust points on this beauty) for trouble-free long life.

Get a Gale and GO...*ANYWHERE*

When good is not good enough graduate to a

Century

world's most distinguished runabouts

Perhaps you'll decide this year that your present boat isn't good enough for your needs. Visit your Century dealer. He offers a choice of eight of the world's most distinguished runabouts . . . all new for 1960. Luxurious conveniences never before thought possible in runabouts are now included as standard or optional Century equipment. Interior beauty and exterior lines have reached a new pinnacle of Century's renowned uniqueness. This is the year of all years to graduate into the finest class of runabouts ever created. See the new 1960 models at your local Century dealer. Write Department D for literature.

EIGHT NEW CENTURY THOROUGHBREDS FOR 1960

RESORTER 19' *(Lower left)—Revolutionary folding padded sun lounge. New storage console under center dash. Unique optional top Chrome stern boarding ladder, optional. Luxury for every kind of water activity.*

ARABIAN 19' *(Lower right)—Ingenious new interior design has bucket seats forward, rear seating along sides with folding activity bar between. New storage console under dash. New optional stern boarding ladder.*

RESORTER 16' *(Upper left)—The traditional favorite of champion waterskiers with an entirely new look. Upholstered foredeck. Sports car instrument panel with cowl-type dash. Convertible top, optional.*

RAVEN 22' *(Upper center)—An entirely new off-shore utility with satin-black lapstrake hull, raked stem and flared bow. Sleeps two below forward deck. Optional equipment: new stern seat that converts into lounge and includes self-draining ice-box and diagonal bait well; completely equipped galley console; new navy-type folding top and side curtains.*

CORONADO 21' *(Upper right)—Overwhelming beauty. Without peer in performance. Fast, nimble, safe. Extraordinary in appearance as well as riding comfort. Optional sliding hard-top. Seats nine. Up to 325 hp engine choice.*

NORDIC 19' *(Not illustrated)—Another new lapstrake design with raked stem and flared bow, new higher windshield. Choice of more power for higher speeds. Navy-type folding top and side curtains. Optional rear seat has bait well icebox underneath.*

PALOMINO AND ROAN 15' OUTBOARDS *(Not illustrated) —Genuine African mahogany planked with beautiful completely upholstered interiors. Choice of natural or deep cherry finishes with matching upholstery colors. 35 hp and up.*

Century

thoroughbred of boats

CENTURY BOAT COMPANY, Manistee, Michigan, Sister Ships to Cruis Along Cruisers

General Sales Offices and Showroom / 1860 Broadway, New York 23, New York

SEE THE CENTURY BOAT LINE FOR 1960 AT OUR MANHATTAN SHOWROOMS. ALSO ON DISPLAY AT THE NEW YORK BOAT SHOW, JANUARY 16-24.

GOLDEN ANNIVERSARY BOAT SHOW

National Motor Boat Show held at New York's old Madison Square Garden in 1905 contained a man-made lake to prove to the public that a power-driven boat with a heavy iron engine would float.

THE FIRST National Motor Boat Show was held in 1905 at the old Madison Square Garden. It started with a mere ninety-eight exhibitors and was staged by the National Association of Engine and Boat Manufacturers in conjunction with the Sportsmen's Show. Men in high starched collars; women with hair piled high; children in black stockings and knickers—26,000 in all stared in fascination at the selection of boats. An artificial lake was constructed on which the boats floated in order to prove to the skeptics that motor boats would not sink with their heavy iron engines.

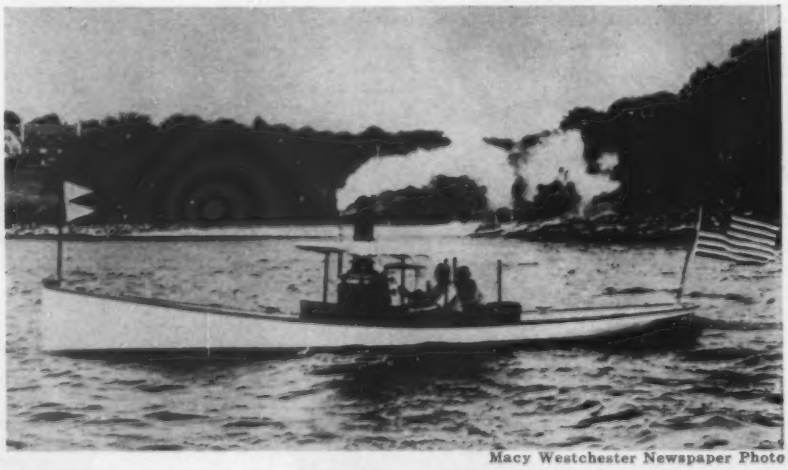
In 1907, the NAEBM held its first independent show. Gone was the lake to make room for more exhibitors. Sixty thousand spectators came to see the boats. The favorite at the 1910 Show was the auto-boat, with its windshield, steering up forward, and automobile top. The 1916 Show, held at New York's Grand Central Palace attracted 125 exhibitors and 80,000 boat lovers. With the advent of World War I, studies were made on uses of motor boats in warfare. By 1920, attendance had grown to 85,000 and outboard motors, called "motors for rowboats," were available for $65.00. Rum runners were looking for speedy craft to carry out their activities, but the family type boat brought more women to the Show.

The Silver Anniversary Show of 1930 had 307 boats. Low cost and noise reduction were stressed. Light, high-speed diesels for boats down to 35-footers were prominent in the 1935 Show. In 1941, the last Show before World War II, the Palace overflowed with spectators, and when the Show resumed in 1947, a record 200,000 persons, many from inland states, came to view the post-war craft.

Every year the New York Show has had more appeal for boating enthusiasts. Last year 403 exhibitors displayed their products to 415,000 persons. Many people thought of the late Ira Hand as Mr. Motor Boat Show. As NAEBM secretary from 1910 to 1949, he managed and nurtured 34 National Motor Boat Shows in New York City. The current Show Manager and secretary of the NAEBM, Joseph E. Choate, has carried on the Boat Show in the same impressive traditions for which it has been noted.

In an effort to dramatize for 1960 the tremendous growth of the boating industry during the twentieth century, three boats, whose ages total two hundred years, were borrowed from Mystic Seaport of Mystic, Connecticut, famed for their collection of historical craft. The oldest was *Nellie*, a 30-foot steam launch, built in East Boston, Mass. in 1872. It has the distinction of being the earliest power boat listed in Lloyds Register of American Yachts. The other two yachts, both built in 1904, were the *Lillian Russel* and *Panhard I*. The significance of the name is left to the imagination, but the *Lillian Russel* was a 21-foot, 4-inch naphtha launch built in New York and originally used as a tender for a large steam yacht. The 31-foot *Panhard* was built in Bayonne, New Jersey as a demonstrator for Panhard engines and was first displayed afloat in the man-made indoor lake. The historic craft are being displayed at the Miami International Boat Show February 19 to 24.

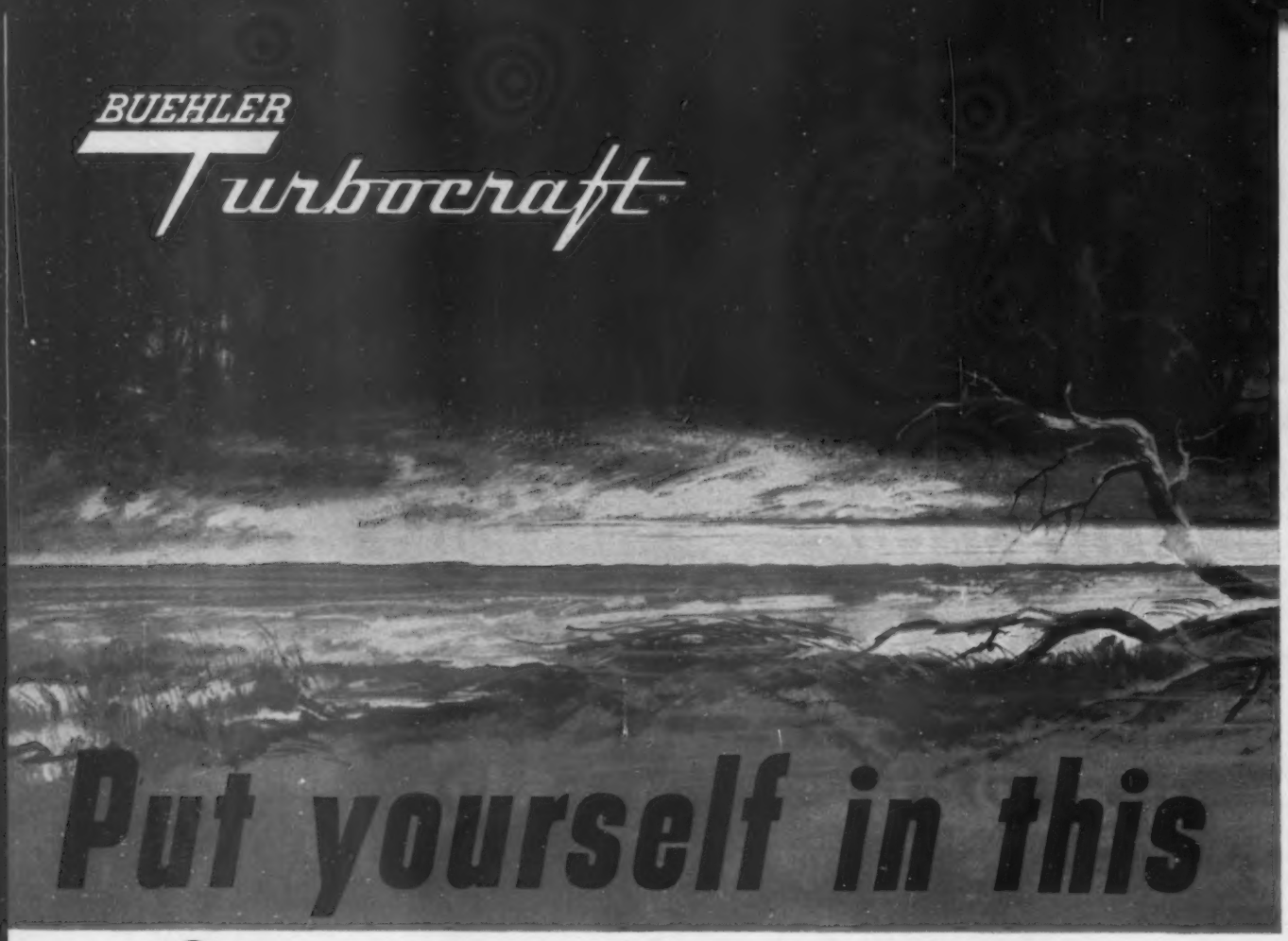
With over seven million boat owners throughout the United States, marine manufacturers are faced with the momentous job of supplying the ever-growing boating public with the latest developments in marine equipment. As witnessed in the directory section of this issue of POPULAR BOATING and the displays at the Boat Show, the boatman will find that manufacturers have met this demand by offering more advanced equipment than ever before. — ⚓



Macy Westchester Newspaper Photo

Earliest power yacht on record, the 88-year-old steam launch Nellie, displayed January 15 through 24 during the Golden Anniversary of the National Motor Boat Show held at the New York Coliseum.

BUEHLER
Turbocraft®
brings the
jet age to
boating!
BUEHLER
Turbocraft



Get behind the wheel. Put the throttle down to the floor. Feel the instant surge of jet power . . . the instant acceleration. Make 180-degree turns in the boat's own length. Cruise full bore in as little as three inches of water . . . over logs, sand bars and floating debris. Throw the boat in reverse at the push of a button.

Put yourself in this jet power picture. This is the boat that has no propeller—you're driven by more than 750 pounds of jet thrust. This is the boat that has no rudder—you steer by deflecting the jet stream. It's fast. It's fun. It's versatile. And it's the safest boat afloat!

Now's the time to plan on new excitement, new thrills, new adventure for this summer's boating. Plan on piloting your *own* jet-propelled Buehler Turbocraft. See your local Turbocraft dealer or write today for complete information.

Jet Power—the Buehler Turbocraft operates on the same principle as jet aircraft. Water under high pressure is directed out the stern of the boat, providing forward thrust similar to that of jet engines.

Jet Safety—with no propeller and no rudder, the Buehler Turbocraft sets an entirely new standard of safety. There is nothing under the hull to be damaged or cause injury to swimmers and skiers.

Jet Performance—instant acceleration, unparalleled maneuverability and the ability to plane in as little as three inches of water give the Buehler Turbocraft performance unequalled by any conventional boat.

Jet Power Picture!

Yes, Turbocraft jet power is new on the American boating scene, but there is absolutely nothing experimental about it. It is backed by years of successful operation on the white water rivers of the wild New Zealand back country. I personally tested it on Idaho's rugged Salmon River—called "The River of No Return"—and on the raging Colorado River. Most important, Turbocraft is backed by our Indiana Gear Works' 25-year reputation for precision engineering and manufacturing for the most exacting of customers—the aircraft, rocket and missile industries.

John L. Buehler, *President* • INDIANA GEAR WORKS, INC.

Get all the facts now and your next boat will be a jet-propelled Turbocraft.

BUEHLER Turbocraft

Turbocraft Division • Indiana Gear Works, Inc.
3119 Roosevelt Avenue • Indianapolis, Indiana

Please rush complete information on the Buehler Turbocraft.

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STREET_____

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The underwater gear case is actually *the heart* of your outboard motor. No matter how efficient your motor is—if your lubrication at this spot doesn't promote smooth, easy operation . . . if it becomes sticky or washes away, the rotation of this gear train slows down, result . . . *lost power!*

Used by Outboard Race Drivers!

Leading outboard race drivers swear by Lubriplate—they say it absolutely prevents loss of power . . . gives trouble-free operation. Lubriplate is waterproof, will not wash away or run off. For fresh or salt water, warm or cold.

Lubriplate Hypoid 90 (fluid)—for gearshift types. A non-foaming, non-detergent Hypoid gear lubricant of S.A.E. 90 grade—recommended for all models.

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Try Lubriplate . . . in the bright-red and white packages at your marine, hardware or sporting goods store . . . get Lubriplate 2-C Outboard Motor Oil and Marine Lube "A" general purpose lubricant, too . . . all outstanding products.

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MARINE LUBRICANTS

SEAMANSHIP

DEAD RECKONING SIMPLIFIED

Here's how to keep track of course and speed changes on a simple plotting sheet

• *You are navigating an area that is subject to haze and fog. You've been fishing, sailing, or just cruising around. The low-lying shore has few outstanding features on which you can take bearings. Furthermore, it is not an area in which it is safe to "feel" your way along the shore because of the outlying rocks, and ledges. If visibility closes in, which way should you head in case a squall approaches, or what is the course to steer to get home?*

• *And that isn't all. There is a strong current. How can you compensate for this so that you don't end up miles from your objective?*

By Elbert Robberson

DEAD RECKONING (DR), a term which is probably derived from abbreviation of "deduced reckoning," is the foundation of all forms of navigation. It consists of calculating a vessel's position from the various courses and distances sailed.

Position can be deduced from courses and distances in several ways. The classical method employs trigonometry, logarithms, and tables, which is one reason that navigation has remained a solemn mystery for so long. The most modern method employs a special computer, with hand-set or automatically operated adjustments for the vessel's course and speed. With one of these computers, the navigator can read the latitude and longitude of his position at any time from a pair of dials. The only disadvantage is the price: $4500 for one such unit.

The practical system for use on a small boat is *graphical solution*, which requires only a protractor, a pair of dividers, and a scale (or ruler). With these, we simply draw lines depicting the track of the boat on the chart. The accuracy of graphical dead reckoning depends upon how carefully the plotting is done and how accurately you maintain your course and speed. Careful and skilled navigators have reached islands in mid-ocean by just this method. Becoming an expert depends largely upon a willingness to practice.

Here is where the *Plotting Sheet*, the construction of which was explained in last month's Seamanship article, can be used to advantage. As discussed last month, there is a disadvantage to plotting on the official Hydrographic Office chart, since the chart soon becomes so marked up that it is illegible. An accurate plotting sheet, equivalent to your local chart, can be drawn in minutes; and when it is covered with "seagull tracks," you can throw it away and start afresh.

Fig. 1 is an example of the use of

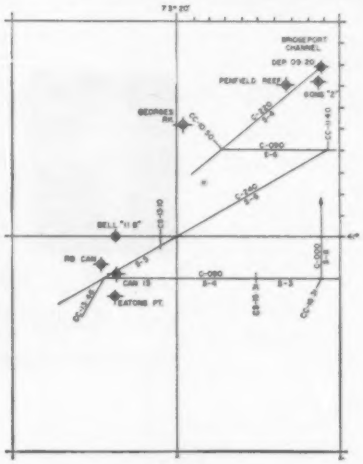


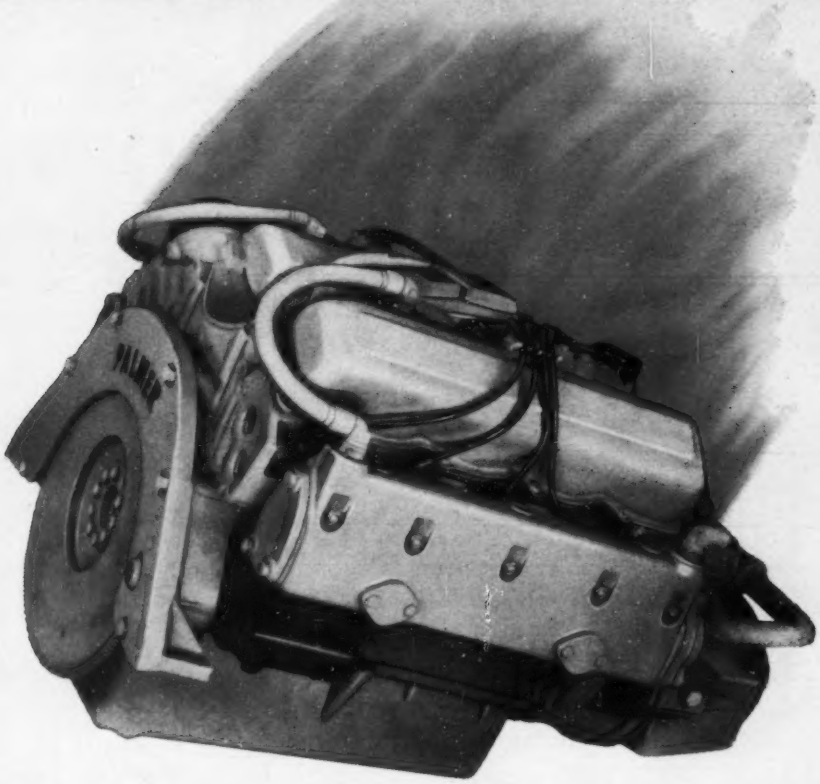
Fig. 1

the plotting sheet to keep track of a day's sailing. The area used for the example is shown on the accompanying section of H. O. Chart No. 1213, (Long I. Sound, Western Part). The plotting sheet in constructed to cover 20 minutes of latitude and 20 minutes of longitude, centered on 73° 20′ West and 41° North. At this time it is a good idea to plot the location of a few of the more prominent navigational marks (especially those which guard danger areas) which may be useful for checking position.

The first requisite for plotting is an

(*continued on page* 50)

HERE IT IS!



Palmer's new V-8 engine top quality and small size, too!

This husky little IH-V345 Marine Engine develops a full 200 horse power at 4000 rpm and weighs only 900 pounds. Because it is built from a sturdy INTERNATIONAL truck engine block, it has all the quality features associated with far more bulky engines, yet meets the smallest space requirements. Reasonably priced parts are available at both Palmer and INTERNATIONAL outlets everywhere.

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Folder showing all Palmer Marine Engines for 1960 will be sent on request. Write for free copy today.

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MODEL PW-27	8 H.P. at 2800 RPM	**$ 395**
MODEL IH-60	22 H.P. at 3000 RPM	**650**
MODEL PH-134	60 H.P. at 3200 RPM	**815**
MODEL IH-240	120 H.P. at 3400 RPM	**995**
MODEL IH-240-SM	120 H.P. at 3400 RPM	**1,095**
MODEL IH-264	135 H.P. at 3400 RPM	**1,075**
MODEL IH-264-SM	135 H.P. at 3400 RPM	**1,175**
MODEL IH-308	150 H.P. at 3400 RPM	**1,325**
MODEL IH-V345	200 H.P. at 4000 RPM	**1,535**
MODEL IH-V549	300 H.P. at 3600 RPM	**3,575**

Prices F.O.B. Factory

The new PALMER IH-V345 has the following quality features not ordinarily found in engines of similar size. Check them against those of any other marine V8.

• More displacement . . . 345 cu. in. • Stronger internal parts • Heavier engine block casting. • More equipment including oil filter, both engine and clutch coolers. • All accessories gear driven . . . no belts, no chains • Four barrel, down draft carburetor . . . safer, more efficient. • Front end of engine clear of accessories. • New simplified hydraulic clutch . . . no planetaries, no back lash.

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Esso

For inboards and outboards..."ESSO RESEARCH works wonders with oil"

SEAMANSHIP

(*continued from page* 46)

accurate point of beginning. A buoy, beacon, or other accurately known position is a good point upon which to base your plotting, and it is usually possible to start out from such a marker at the entrance to a harbor, channel or place of mooring. Because the accuracy of the plotting from start to finish depends upon the accuracy of the point of departure, it is necessary to bring the boat as close as feasible to the known position, when starting out.

The point of departure is located on the plotting sheet, according to its latitude and longitude measured on the regular chart, as described in the December Seamanship column. The first course sailed is 220° true, so this line is drawn by protractor from the point of departure, and above it the course is recorded: C-220. By log or speedometer, we find our speed to be four knots. This is recorded below the line: S-4.

At 10:50 we come about to a course due east, 90° true. To locate the point of turning on the plotting sheet, we must know the distance travelled on the course being ended. This can be determined through the use of tables or a computing device, as described in "Computers for Piloting," in the November Seamanship column. Otherwise, it can be found by dividing our speed in knots by 60, to get the distance travelled per minute, then multiplying this figure by the number of minutes on the course—in this case, 90. No matter how it is arrived at, the distance (6 miles) is measured off on the 220° course line, and a notation is made for the time of course change: CC-10:50. From this point, the course line 90° is drawn and labelled C-090. The speed, which is now six knots, is marked below the line. At each subsequent change of course and speed, the process is repeated.

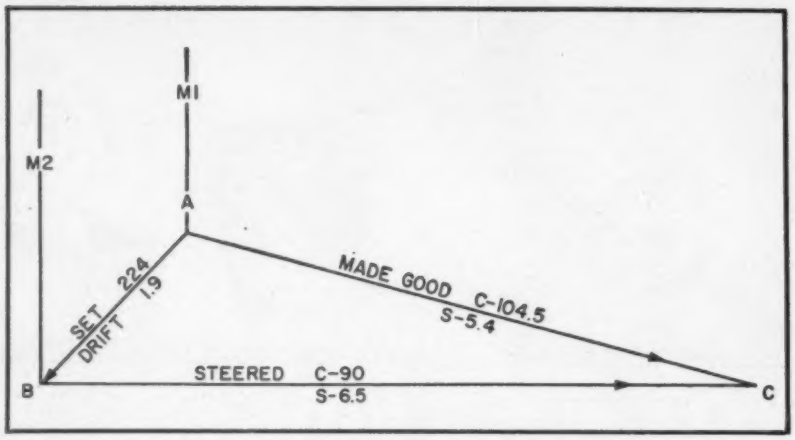

Fig. 2

Note that if the speed is changed, while the course remains the same, the notation CS and the time are recorded, and the distance is computed from that point at the new speed.

When subtracting time figures, remember that the clock is not a decimal device. You cannot "borrow" in the usual fashion. For example, to subtract 10:47 from 11:10, it is necessary to borrow a whole hour (60 minutes): the problem then becomes to subtract 10:47 from 10:70.

Navigational check points can be

(*continued on page* 52)

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PAR AIR MOORING MAGIC BOAT BUMPERS T.M.

The pneumatic marine fenders that protect your boat in every situation

No matter where you tie up—at a wooden dock, at a concrete pier or in a lock, at a high, low or floating dock, in tide-water or current—you can instantly arrange your Par-Air Bumpers to suit the conditions.

These Bumpers have no rope ears or grommets. The line slides freely through the Bumpers, permitting you to hang them vertically, horizontally, or in combinations, at any height, without re-tying.

Par-Air Bumpers are soft as a toy balloon, tough as a truck tire. So buoyant they can be used as floats or markers. And you can regulate their resiliency with the Par-Air Inflation Pump that you get free when you buy a set of Bumpers.

The entire length of Par-Air Bumpers is working face—you don't pay for length that isn't usable:

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LIFETIME TROUBLE-FREE SERVICE • SUPER EFFICIENT
ALWAYS READY, NO COAXING • OPERATE IN ANY POSITION

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"HANDY BOY"® OUTFIT

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2½" cylinder, 24" long. Only three strokes per gallon. Operates horizontally or at any angle, can be installed in any convenient location in boat.
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Most Versatile of any Deck Fitting

DON'T TIE KNOTS... ParCleats hold fenders and springlines with just a twist of the line. A quick loop of the line secures it, a pull on the free end releases it.

ParCleats are a new type* of fitting, handsome, streamlined. Formed of solid brass, highly polished and chrome plated.

Mount a pair side by side as a bow plate, mount them singly along side decking to hold fenders and springlines. Packaged in pairs (port and starboard), two sizes:

3-inch size
No. 4575 • $2.50 per pair

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*U.S. Pat. 2,836,141

Skipper Hitch™

The SNAP-ON FASTENER with the S-T-R-E-T-C-H

SECURES, HOLDS UP, LASHES DOWN ANYTHING ON A BOAT

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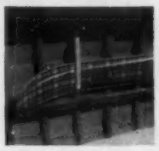

New! Live rubber straps with stainless steel clips permanently molded into the ends. They stretch to fit around objects of any shape, keep all movable equipment handy but safely lashed down.

Two sizes: No. 4611 • 18" long, $1.95 per package of Four
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Skipper Clips™

Secure flags, boat covers, weather canvas, cabin curtains with these stainless steel clips that snap into grommets, can't work loose or blow away. Self-tapping screw eyes go into wood, metal, plastic, fiberglass.

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No. 4560 • Packets of four Skipper Clips, only 69¢

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"THE PERFECT COAT FOR EVERY BOAT"

Extremely durable, absolutely waterproof, impervious to oil, grease, gasoline, abrasion-resistant, and remain resilient! Outlast ordinary finishes 6 to 1. That's true economy, saving money and time each season. Alroy Epoxy Coatings never dry out. They set by catalytic action, providing a pot life of 5 hours and more. Colors don't haze or chalk, whites don't yellow. The 2-part mix (1-to-1) ends tricky measuring.

ALROY-711 EPOXY COATING

For topside, deck and brightwork. One coat makes new canvas non-skid and watertight. Two coats give cabin tops glass-like finish. For non-skid surface add Alroy Non-Skid to second coat. **Colors:** White, blue, green, gray, black, red, yellow, buff, clear.

ALROY-703 EPOXY COATING

A special extra-tough heavy-duty formulation. Brushed on 1/32" thick it turns into a durable long-lasting protective coat of "armor" that fills cracks and checks, bars marine borers, prevents plywood checking and de-lamination. Sun-resistant. **Colors:** Dark red, gray, black, white.

ALROY-706 MARINE ADHESIVE

Ideal canvas cement and primer. Won't crack. Avoids removing fittings, rails. Full 30-minute working time. Economical.

ALROY EPOXY FIX-KIT

Permanently repairs dents, gouges and cracks in hulls. Extra strong, it stays resilient to withstand marine stresses. Bonds with unsurpassed tenacity. Sets by catalytic action. Unaffected by salt water. Impervious to oil, grease, gasoline, etc. Non-metallic, non-magnetic. No clamps, pressure or heat required. **Only $3.95 complete**

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ALROY PROCESS CORPORATION, 333 Hudson St., New York 13, N. Y.

SEAMANSHIP

(*continued from page* 50)

used any time to correct the course line, speed figures, or to obtain a fix for a new point of departure. The location of such check points can be established on the plotting sheet by their latitude and longitude measured on the regular chart. Fixes can be obtained by passing close by a buoy or other marker, or by ranges and bearings, as has been described in earlier articles in this series. The deep sea navigator corrects his dead reckoning by celestial observations, Loran or radio bearings.

Now, at 16:31 in the afternoon, we want to return to our point of beginning. The course angle is measured from our location at the time, and the distance measured. Under power at eight knots, we can reach the Bridgeport channel by 17:45, by heading due north, 000°.

Here is the important thing about such plotting: at any time, had the visibility decreased, we would have known our location pretty closely and could have reached the nearest point of safety, or headed back for Bridgeport, simply by continuing our dead reckoning. Otherwise, without plotting, it is unbelievably easy to lose track.

These are the basic steps in dead reckoning on a plotting sheet. However, in some tidal waters, greater accuracy may be obtained by compensating for current. This is done by drawing "velocity vectors."

The direction and velocity of tidal currents in major harbors are shown in books of charts published by the Coast and Geodetic Survey. Corrections for the current are applied to the plot of a boat's course in one of two ways, depending upon whether you are just cruising about on random courses, or whether you desire to make a certain course good to reach a certain destination.

The first case is that of knocking about on random courses: all that is necessary is to correct for current to find where you actually are at any given time. *Fig. 2* illustrates this situation.

(*continued on page* 54)

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"Their first dry rot."

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of carefree
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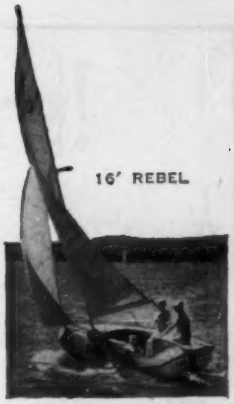

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Ray Greene

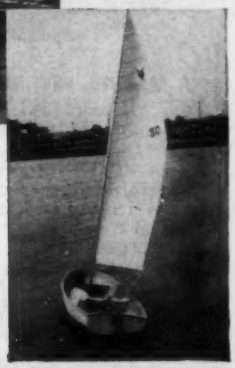
THE FIRST NAME IN FIBERGLASS BOATS

From the 26′ *Sparkman & Stephens* designed New Horizons down to the 10′ Vixen, indulge your fancy — make your choice — and sail away to countless hours of carefree boating — of family fun — of exhilarating sailing. Here is a fleet of proved design, roomy, safe and able. Whichever your choice — you may sail with envious pride, knowing she was built to the highest standards of craftsmanship — with built-in ruggedness and maintenance-free qualities which fiberglass alone provides. Fittings, hardware and appointments, too, make for greatest ease and comfort for you and your guests. Be your interest racing, cruising or daysailing, your ideal is here.

26′ NEW HORIZONS
QUALIFIES NOW UNDER REVISED M.O.R.C. RULES.

12′ NIPPER (PLYWOOD)

10′ VIXEN



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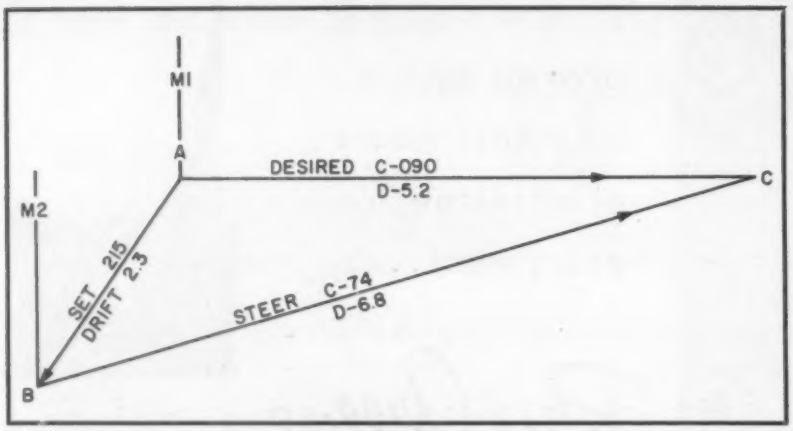

Fig. 3

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- Prevents internal motor corrosion.
- Cleaner running engine gives you longer spark plug life.
- Reduces internal frictions assuring smoother running engine at all times.
- Keeps RPM needle steady.

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EMEROL MANUFACTURING CO., INC.
331 North Main Street • Port Chester, N.Y.

SEAMANSHIP

(*continued from page* 52)

The direction of the current (set) in this case is 224° true and the velocity (drift) is 1.9 knots. From an arbitrarily chosen point "A," draw the current line at the angle 224° from its meridan M1 and make it exactly 1.9 inches long, corresponding to the current speed. This establishes the location of Point "B." We are steering a course of 90° true and moving through the water at a speed of 6.5 knots. Draw the course line from Point "B" at an angle of 90° from its meridan M2, and make this line 6.5 inches long, corresponding to our speed through the water. Connect points "A" and "C" with a line, and its angle (104.5°) is the course we are actually making good; and our speed over the ground corresponds to the length of this line in inches: 5.4 knots. In our dead reckoning, the course and speed actually being made good are the ones we must use on the plotting sheet and on the chart.

In the second case, shown in *Fig. 3*, we want to reach a point bearing 90° true and 5.2 miles distant from us. There is a 2.3 knot current flowing in a southwest direction at an angle of 215°. We must find out what course we are to steer and the actual distance we must travel through the water, from which we can determine how long it will take us to reach the desired point.

From point "A," draw the current line at an angle of 215°, from the Meridian M1, 2.3 inches long, corresponding to the current velocity. This establishes point "B." Then draw the line we wish to make good from our location, "A," at an angle of 90°, and 5.2 inches long, corresponding to the distance of the destination in miles. This establishes point "C." Now, draw a line connecting points "B" and "C." The angle of the line "BC" from the meridian M2 (74°) is the course we must steer, and the length of the line in inches (6.8) indicates the distance we will actually travel through the water to make good the 5.2 miles over the ground.

In drawing velocity vectors for higher-speed problems, using inches to correspond to miles will result in a very large diagram. To keep the diagram compact, use centimeters instead of inches. In fact, the metric system is very handy for the solution of most DR and current problems, since fractions are expressed in tenths, directly applicable to chart work.

To keep track of your whereabouts, use a sharp pencil, steer carefully, and maintain a running record. With a little practice, it becomes simple, and the small amount of work involved is a small price for insurance against getting lost.

Proof under pressure!

PHOTOGRAPHED AT WEEKI WATCHEE, FLORIDA

Here's dramatic proof of AC superiority—the underwater pressure test. The AC Fire-Ring Marine Spark Plug at right is tested against another spark plug under 1400 pounds pressure. The bubbles tell the story—AC wins, hands down!

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STATIC ELECTRICITY

Here's how to understand and prevent gasoline explosions that occur due to improper grounding of the fuel system

By Geoffrey Smith

THE BLAST came out of nowhere as far as anyone could see. I came to in ice-cold water fighting to get rid of my rubber hip boots and mackinaw, then swimming up wind to get away from the flames. The score was this: One sailor killed, the total loss of a coastwise schooner and half the pier burnt away. The cause: static electricity.

All this happened 34 years ago on the West Coast of Canada. We knew very little about handling gasoline except that it was considered somewhat dangerous to smoke. There were no dockside pumps at this out-of-the-way harbor and accepted re-fueling practice was to roll drums of gasoline down the pier, hoist them aboard and suspend them from a boom over an out-size funnel fitted into the fill pipe. One man handled the operation on deck, unscrewed the bung, steadied the drum over the funnel and controlled the flow of gasoline by opening and closing the vent. This was the man who was killed—he had spelled me so that I could warm up in the lee of the deck house and catch a smoke.

Our ship and dozens of others had used this method of refueling hundreds of times and nothing had ever gone wrong. It may have been because of the crisp dry weather, it may have been that the drum was hoisted a little higher than usual and the gasoline flowed farther and faster into the funnel. Neither of these explanations was of any great comfort to the captain of the schooner, the owner of the pier or the dead sailor's widow.

In the next couple of years I was involved directly or indirectly with three more gasoline explosions, all of them due to human error. One was when cargo was stowed in an air shaft, reducing ventilation, and a sea-going schooner went up a hundred miles off-shore from the fumes of a leaky beat-up engine. The second time was when we went to the help of an out-of-fuel fishing boat, and gasoline fumes from a now-illegal under-deck vent seeped 30 feet to an open galley fire. The third time was when a deck hand filling a five-gallon can for a light plant moved an oil lantern closer so he could see better. Since then I have learned a lot about gasoline.

Static electricity is generally considered to be frictional electricity generated by two dissimilar materials passing over each other, such as gasoline flowing through a pipe into the air, a car rolling along a highway, or you yourself brushing your hair or walking across a carpet. These and many other actions cause electrical rearrangement. How many times have you reached for a door knob and received an electrical shock, or fondly petted the family dog or cat and had the little animal take off with every hair standing on end? Nylon and other synthetic cloth is particularly conducive to the creation of static electricity and in the dark you can see it. These examples of static occur generally in very dry weather, but when filling your boat's tank it can happen at any time.

Along the coast we generally feel static sparks in the cold weather which a Northwest wind brings in and naturally assume that it is most prevalent in the winter. One reason behind this is that warm weather in coastal waters usually goes with high humidity and the dampness of the air tends to dissipate the electrical discharge.

Your main protection against static electricity while refueling is grounding, also known as bonding, which is direct metal-to-metal contact from the fuel hose nozzle to the water in which your boat is floating.

The first step is to be sure that the hose nozzle is in direct contact with the fill pipe deck fitting. Most fill pipes are metal and consequently you have metal contact to the fuel tank, but in some cases the pipe may be rubber or plastic which, although dangerous, is sometimes used for economy where there are complex curves. If you have such a fill pipe your best bet is to replace it with metal or make a connection with copper wire (8 to 10 gauge or bigger) from the deck fitting to the tank. Should you use solder be very sure that the tank is empty and free from fumes.

Your next concern is the fuel line from tank to engine. If it is metal you have nothing to worry about, but if it is plastic or other non-metallic material you must follow the procedure given above for the fill pipe. Once you are grounded to the engine there is direct metal contact through the engine casing and propeller shaft to the water. In the very rare case where there is a non-metallic gasket on the shaft to allow for play you must set up a metal contact either through it or over it.

Recently fiberglass gasoline tanks have come into being. These pose problems of their own. One method of grounding would be to run a copper wire around the tank from fill pipe to fuel line, but this would not ground the fuel in the tank. An expert on the subject suggests the manufacturers imbed the wire in the fiberglass connected to intake and outlet fittings. This would avoid corrosion which could occur if a wire went through the fuel.

It is not necessary to have a big static spark to set off an explosion—anything you can feel is enough. Even the spark caused by brushing your hair will do it under the right combination of fumes and air.

A disquieting thought is that, under certain atmospheric conditions, you can cause a static explosion yourself, particularly if you are wearing synthetic clothing and the almost certainty if you are insulated by rubber soled shoes. So, for safety's sake and the remote chance, ground yourself before you open the fill pipe deck fitting and release fumes to the air. You can do this by dipping your hand into the water overside, touching the engine block or a metal fitting on the dock connecting to the water.

Diesel fuel is too lean for static electrical explosion under normal conditions, but should it vaporize through contact with hot metal or if a leak in hose or nozzle forms a fine mist, it is potentially dangerous.

Another danger point is water. If there is water mixed with the fuel you are taking aboard the possibility of static spark increases ten to 20 fold.

Gasoline is dangerous unless it is handled properly. Pound for pound, in the right air to vapor mixture, it has more explosive power than T.N.T. But it is a fine, efficient fuel and all you need do is treat it as you would the sea itself: with infinite respect. — ⚓

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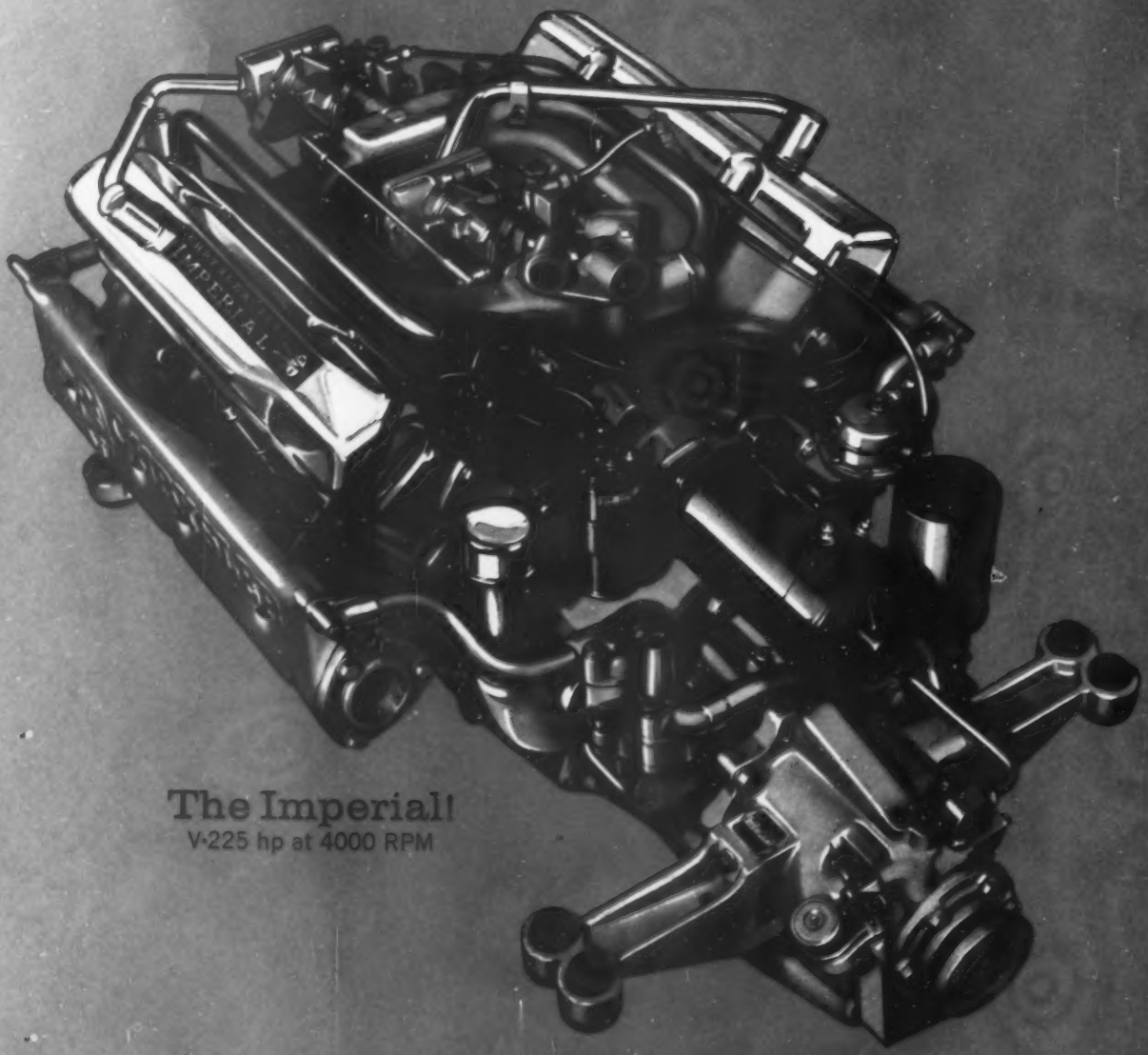

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RESCUE OF THE CUTTY SARK

By R. S. Findlay

British Travel and Holiday Association

Now in a special dry dock on the Thames River, Cutty Sark was built in 1869. On one occasion she overtook a steamship near Australia.

WHEN A SAILING SHIP is preserved for posterity she must possess some outstanding quality or become renowned for some great exploit. Two such ships are *Old Ironsides* and Admiral Nelson's flagship *Victory*—warriors of an age when mastery of the seas see-sawed from one country to another.

One more has been added, but her mastery of the seas came, not from being a man-o'-war, but for her ability to cover long distances in a short period of time as a peaceful merchantman. She is *Cutty Sark*, rescued from oblivion by retired Captain William Dowman, and now reposing in her own dry-dock on the river Thames, six miles downstream from the center of London.

When *Cutty Sark* was built, clipper ships were still enjoying a monopoly of trade between Britain and China, but it would appear as if her owners were oblivious to the march of time. At that period the steamship already had a head start of fully 60 years. In 1786, John Fitch was experimenting with a vessel on the Delaware River

CUTTY SARK continued on page 66

5 YEARS AHEAD

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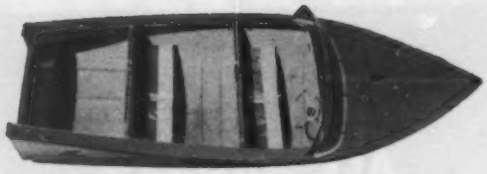

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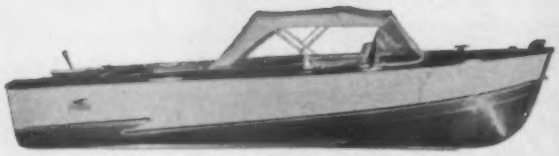

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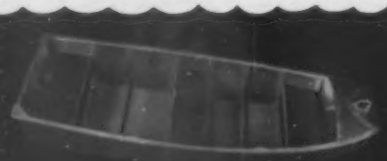

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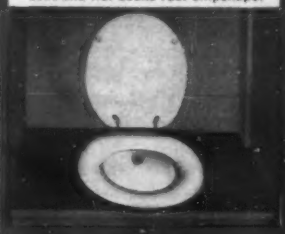
3:30 P.M. Cut plywood panel to fit bowl...insert bowl, then seat and lid. Looks real shipshape.



4:00 P.M. Drill hole through hull below water line and install water intake fitting.

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driven by mechanical oars and six years later the *Charlotte Dundas* was operating as a steam-driven sternwheeler on the Scottish Forth and Clyde canal. Robert Fulton sailed his *Clarmont* from New York to Albany in 1807; true she only made five miles per hour but she paved the way for the first crossing of the Atlantic in May-June 1819 by the *Savannah*, using a combination of steam and sail. The year 1822 saw British men-o'-war changing from sail to paddlewheels and by 1840 the propeller was supplanting the side wheel on naval vessels. This was the age of steam and the beginning of the end of what has been termed the glorious and glamorous age of sail.

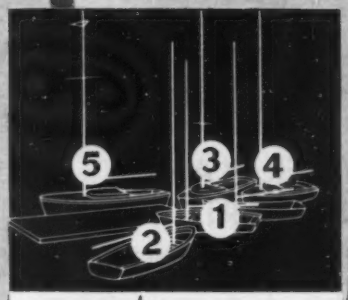
In long hauls the sailing ship held her own for many years as coaling stations were not too numerous. This handicap however was soon to be overcome and with the opening of the Suez Canal in 1868, a short route to the Orient was made available to the steamship and she appropriated the trade which the clipper had enjoyed as a monopoly for ages.

Although the clippers were driven from the China trade because of the short route now available to the steamship, they held their own for a time when engaged in the Australian wool trade. It was an arduous run from Melbourne to Liverpool, but *Cutty Sark* passed many ships on the way. A day's run of 360 nautical miles was not unusual for this slippery creation of wood and canvas; in fact it was an excellent performance when even today few steamships do better than 17 knots. Perhaps her best day was when she overtook the P & O mail ship *Britannia* outside Melbourne Heads. To those standing on the deck of *Britannia, Cutty Sark* must have looked like a phantom ship with all sails set, creeping up and passing the steamship, leaving her hull down at sunset. This must have been an hour of exhilaration for famous Captain, Richard Woodget, as the free wind of heaven filled every stitch of canvas, inching his ship ahead of the mechanical invention. Had Robert Burns been on board he could be heard saying: "Well done Cutty Sark."

British Travel and Holiday Association

One room on Cutty Sark now houses this collection of figureheads.

The steamship finally drove *Cutty Sark* from the Australian trade for which she was eminently suited, and in 1895 she was sold into Portuguese registry under which she sailed for 25 years. When she was again put up for sale, retired Captain W. Dowman bought her and started renovation. In 1936 his widow presented her as an auxiliary to the boy's training ship H.M.S. *Worcester*. As much restoration was required, a committee of sailing enthusiasts formed the Cutty Sark Society with Britain's sailor prince, the Duke of Edinburgh as a patron. This society has undertaken the task of raising a quarter of a million pounds as a permanent fund for the upkeep of the ship. With the money which has been raised, new masts and rigging have been installed and the hull and decking entirely renovated. The teak deck houses shine with new varnish, the beautiful scroll work and her outstanding figurehead have a new coat of gold leaf, and the brass fittings on deck get a daily polish. Below decks the saloon has been restored, the Victorian furniture replaced, and the room made snug by an old-fashioned fireplace reminiscent of a cottage parlor. Other parts of the hold have been divided into classrooms where navigation and seamanship are taught. One room houses a collection of figureheads salvaged from ships of that ecstatic age so superbly upheld by *Cutty Sark*, one of the lovely ships of sail which brought credit and renown to shipbuilders and seamen. — ⚓



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BOATING IN THE NEWS

REVOLUTIONARY POWER PLANT HAS TWO MOVING PARTS

A NEW CONCEPT in internal combustion engines of great potential interest to boatmen was made public recently when Curtiss-Wright first unveiled a revolutionary power plant developed in conjunction with NSU of Germany.

The Curtiss-Wright engine, which has only two moving parts, has been running since late 1958 on the test bed and in experimental installations such as a portable water pump. The basic unit develops about 100 hp, and weighs roughly 100 pounds.

In operation, a triangular rotor revolves in a sealed housing shaped something like a fat figure eight—or an oval that is pinched in slightly at the sides. The rotor also revolves on an eccentric cam that is fixed to the crankshaft. This cam and a gear fixed to the side of the housing control movement of the rotor so that its three corners maintain continuous contact with the walls of the housing. Exhaust port, intake port and spark plug are spaced around the edge of the housing so that there is an intake-compression "stroke," firing "stroke" and exhaust "stroke" for every one-third revolution of the rotor. The firing "stroke" forces the rotor around in the housing, in turn causing the eccentric cam to revolve, turning the crankshaft. As the crankshaft turns at three times the speed of the rotor, there is one firing "stroke" for every complete turn of the crankshaft. A diagrammed description of this engine and its operation is carried in the February issue of the Ziff-Davis publication SPORTS CARS ILLUSTRATED.

Advantages claimed for the engine include an extremely high power to weight ratio, economy of operation, plus a smooth flow of power at high operating speeds—about 15,000 rpm as well as down to an idling speed of about 400 rpm.

The basic engine is the invention of Dr. Felix Wankel; and initial development was carried out by NSU (Sewing Machine Union of Neckarsulm), a firm that builds motorcycles and small cars. By late 1957 NSU had brought the engine to a point where licensing agreements could be discussed, and Curtiss-Wright entered the picture. Since that time development has proceeded separately on powerplants of different sizes. NSU has concentrated on engines with a swept volume of about 15 cubic inches, compared to the swept volume of about 35 cubic inches for the Curtiss-Wright 100 hp engine.

Advantages of such an engine in marine applications are obvious. A small, lightweight unit does the work of a much larger and heavier engine. The new design is almost completely free of vibration: it is said that the NSU engine in operation is so smooth that a glass of water, placed atop the running unit, will not show a ripple in its surface. Also, the engine's power is delivered on moderate-octane automotive gasoline as specific fuel consumptions is .45 pounds/brake horsepower hour. — ⚓

BOAT REGISTRATION BEGINS APRIL 1, 1960

THE U. S. COAST GUARD will begin registering motorboats of greater than 10 HP in states not conforming to the Federal Boating Act of 1958 on April 1, 1960. Thirty states now have enacted legislation to set up their own registering and numbering systems but all have not yet been formally approved by the Coast Guard. Additional states probably will act but the Coast Guard will take over the responsibility in those which do not conform on April 1, 1960. At one time, it was thought the deadline would have to be extended to April 1, 1961, due to insufficient Coast Guard funds. In fact, a bill (H.R. 8728) was rushed through Congress for the purpose. President Eisenhower did not sign the measure into law, however, because later passage of the mutual security appropriations bill contained money to initiate the program on April 1, 1960.

Now there is a better boat!

Its exclusive "whaler" design will give buyers

amazing performance, unusual strength, great beauty

Here is a boating achievement: lapstrake hulls fashioned in *aluminum!* The design makes a stronger hull than one built of any other material of equal weight. It resists impact blows of great intensity, yet has unusual yield strength.

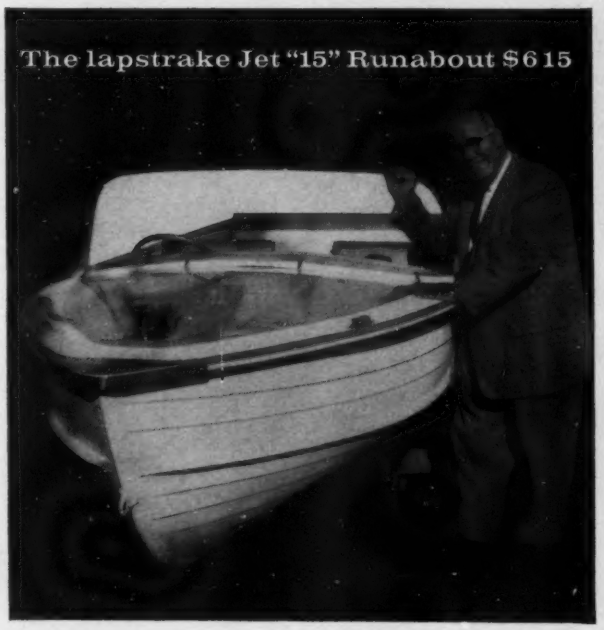
But what is lapstrake design?

In the last century men risked their lives whaling in high seas. The harpooning was done from small boats called whalers. It was for these boats that the lapstrake design was conceived. A hull had to have fabulous strength and so shipbuilders lapped one piece of wood over another, much as is done on the side of a house except that the boards were formed around the ribs and keel. The design proved to have unusual strength, and it had another feature when used in choppy seas. The laps actually broke up the waves and permitted air to flow along the hull, giving a soft ride and stable performance.

It was obvious that such a design would be an improvement in metal boats as well, but a practical way to apply it confounded the designers.

Now after years of designing and testing and a year of consumer use, Starcraft announces five models with lapstrake hulls: a cruiser, three runabouts and an open boat.

You'll enjoy a test ride in a lapstrake boat of Starcraft design. They are fleet, yet sure. The ride is soft and comfortable. The construction so fine that Starcraft gives a 15-year guarantee against punctures or structural defects. The prices? Amazingly low, even the 18 foot cruiser is below $1,000.



What is lapstrake?

The cross section above shows how the metal is formed from gunwale to keel. The strakes, as they are called, run from stem to stern and provide unusual longitudinal strength.

What is its value?

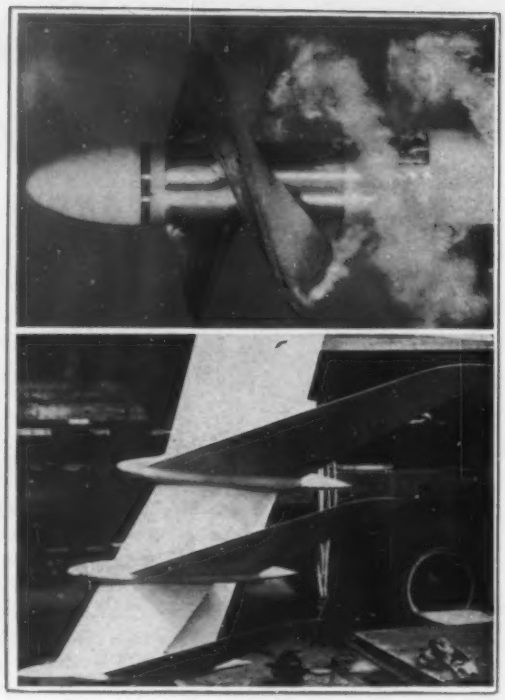
A lapstrake hull as shown in cross section above breaks up even choppy water and allows air to "float" the boat on top reducing frictional drag and softening the ride. Hulls are stronger, speedier and more attractive.

STARCRAFT

STARCRAFT BOAT CO. Department PB-2 • Goshen, Indiana

In 1960 Starcraft is offering 13 models of aluminum boats in a variety of lengths and styles. There are cruisers, runabouts and open boats, many of which can be trailed and several of which can be car-topped. Each of these boats is described in detail and is illustrated in full color in Starcraft's new catalog folder. It's available free at your dealer's or by writing Goshen. See your dealer's display of Starcraft Boats soon.

Trends for the future? These two remarkable developments from the Office of Naval Research: super-cavitating propeller, top, and multiple-fin hydrofoil, below, may foretell revolutionary improvements for your pleasure boating safety, speed, and comfort.



By Robert J. Mindak
Office of Naval Research

BOATING FOR THE FUTURE

In an age where speed and efficiency count—new and often secret developments by the U. S. Navy may forecast the shape of things to come in pleasure boating

A CAPSULE LOOK at present work by the Hydrodynamic Research program of the Office of Naval Research offers a glimpse into the future. Many projects now in development are sure to have a great influence on pleasure boating for years to come. Statements and opinions expressed here are my own and do not necessarily reflect the official position of the U. S. Navy.

Present day ships are not satisfactory for operation in very heavy seas and incapable of very high speeds (of 70 to 100 knots) in smooth water. Current ship research is concentrated on developing hull forms having marked improvement in seaway operation and efficient high speed operation. One type of ship being studied, for example, is the semi-submerged ship which could operate at fairly high speeds in calm seas but would almost completely submerge during storms to minimize the surface effects. Another type under study is one with minimum wave making resistance. If a hull form could be designed to cut wave making in half, there would be 25 per cent more power available for higher speeds. These hulls have a bumpy shape which is very favorable for boundary layer separation resulting in a large pressure drag. To overcome this difficulty, companion programs are underway to provide means for stabilizing boundary layers, thereby reducing this drag.

Other types of hulls are being looked at, such as lengthened destroyer hulls, yacht and trawler hulls. All of the above research will be of very little use to the pleasure boatman today, but is of general interest.

Research on conventional small boats is also being carried out, however, by the Navy Bureau of Ships and its own research arm—the David Taylor Model Basin. Naval areas of interest in small boats are materials and fabrication techniques, stability, speeds, rough water behavior, and planing boat theory. The greatest effort right now is on materials and fabrication techniques. It appears almost certain that all small boats in the Navy may eventually be molded plastic construction—either reinforced fiberglass or other suitable material. Early in the program, the plastic boats under test were plagued with quality control difficulties, but these have been or are being eliminated. It is anticipated that plastic boats will greatly reduce maintenance costs and

Navy hydrofoil research craft undergoes tests at U. S. Naval Air Station, Patuxant River, Md. Foils give boat smooth ride at speeds higher than can be attained with present-day conventional hulls.

therefore pay for themselves. In a recent issue of Navy Times an article appeared describing tests successfully performed by the U. S. Coast Guard on a 40 foot reinforced fiberglass boat of honeycomb construction. The boat had a 300 hp inboard engine with single screw drive. It was tested in 8-foot waves and was subjected to twice the force that steel and wood boats of the same size were ever exposed to. The boat was driven at 20 knots full speed into the waves, driving the crew to their knees.

Considerable work in the other areas of small boat research has been performed at the Taylor Model Basin and has been summarized in many Model Basin publications. It should be realized that new types of small boats would not be quickly accepted by the operating people because the old 26-foot motor-whale boat is virtually unsinkable, although very slow.

Now let us look from large ship and small boat research to other areas of current interest. First, it appears that the 2-cycle engine—so familiar as outboard power—will not be replaced in the forseeable future. Other energy conversion techniques such as magnetohydrodynamics, thermal-electric power, solar batteries, ionic propulsion, etc., are not suitable for the small boat field. The gas turbine or gas turbine free-piston engine will give the 4-cycle inboard engines competition, but it is unlikely that they can be made to run competitively under 50 hp.

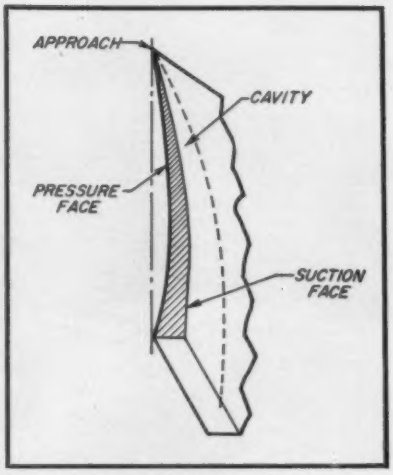
In order to achieve the maximum speed, stability, and comfort in small boats operating in rough water, it has been thought that one solution may be that unconventional craft—the Hydrofoil boat. The Navy is currently considering this type of craft for various applications. The hydrofoil boat is not new. The first patents were issued in 1905. In 1908 Capt. Richardson of the U. S. Navy worked on them. In 1911 a dingy was made to "fly" at 6 knots. Concurrently much research on hydrofoils was being done in Europe—primarily for seaplane operation to improve take off and landing characteristics. In 1919 Alexander Graham Bell tested a hydrofoil boat at 70 mph. Most of the people interested in hydrofoils turned their attention to airplanes so that the hydrofoil was given little consideration in

FUTURE continued on next page

First sailboat to use hydrofoils exceeded 30 knots in a moderate breeze. It was developed and tested under contract for the office of Naval Research.

Conventional propeller creates water turbulence which can cause actual erosion from bubbles breaking on blades.

Super-cavitating propeller takes advantage of vacuum aft of blades to increase efficiency. Bubbles here decrease drag.



Looking out from the hub, blade has sharp leading edge, at top, but squared off trailing edge, improved "lift" ratio.

Europe until the 1930s and not in this country until after World War II. Currently hydrofoil passenger boats are operating in Switzerland and Italy. There is quite a thriving hydrofoil boat industry in Germany supplying the boats.

Let us briefly review the theory of the hydrofoil. An airplane wing or air foil as it is called, generates a lifting force by virtue of the fact that the total pressure on the bottom surface is greater than the total pressure on the top surface. This is achieved by the shape of the wing. The amount of lift depends upon the speed of the flow over the wing, the area of the wing, the density of the fluid flowing over the wing, and other factors. Water is 800 times as dense as air so that an airfoil in water generates 800 times the lift of air. This means that much less lifting surface is required in water. A hydrofoil therefore is nothing but a small airfoil operating in water. Hydrofoils are made to generate enough lift to keep the boat hull clear out of the water. In the "flying" condition, hydrofoil boats have nothing but a few square inches of foil surface submerged.

Under these conditions the frictional drag and other drag components are drastically reduced. As rough-rule of thumb, a conventional boat operating on hydrofoils requires only half the horsepower needed to operate at the same speed without the foils. Or, with the same powerplant, a conventional boat can increase its top speed by 40 to 80 per cent when flying on hydrofoils.

To illustrate, we can look at comparison figures of tests run some time ago. A 26-foot boat with 125 hp and called *Hypockets* was able to do 20 knots without foils and 36 knots on foils in smooth water, or 32 knots in 4-foot waves. *Hypockets* once outran a 63-foot air-sea rescue boat having the same rated speed of 36 knots. This was done in 5-foot swells. In other tests, a 25 knot 40-foot air-sea rescue boat could not keep up with a 25 knot 16-foot hydrofoil boat in a 4-foot chop. This illustrates one important advantage of hydrofoils: the ability to maintain high speed in rough water. Other advantages not yet mentioned are negligible wake and a minimum of roll and pitch. A hydrofoil boat runs very smoothly in waves up to about 5 feet and is very easy to operate.

There are some disadvantages to hydrofoils, however. First is the added cost of the foil system (about $400 for a 16-footer). Second is the longer shaft required on the propeller, since the boat may be as much as two feet out of the water. Another disadvantage is the vulnerability of the foils to damage by heavy objects in the water.

Hydrofoils have many configurations, each using one of two control systems—angle of attack control, or wetted area control. Typical designs include V-type foils and ladder-type foils (foil sections stacked one above the other like a ladder) which control the lift by the area of foil sections in the water. These are called surface piercing foils. Completely submerged foils may be curved or straight, and use variable angle of attack of the foil to control lift.

Much of the Navy's research has gone into development of automatic control systems for hydrofoils. All of the hydrofoil boats sold for pleasure use manual control. Currently ONR is building a 24-foot hydrofoil boat designed to use supercavitating propellers, a concept I will explain later. The Maritime Administration is sponsoring the design of an 80-ton hydrofoil boat. Eventually fast ocean-going passenger hydrofoil liners are envisioned. These ships would travel at speeds of 80 to 100 knots and would cut the travel time to Europe considerably. Because weight is as critical in a hydrofoil ship as it is in an airplane, the hydrofoil ships could be light weight coach-type ships without cabins. Passengers might sit on rows of comfortable coach seats.

Current research in planing boats tries to reduce the boat area in the water to reduce friction by holding an air space under the hull. The extreme of this effort must be the hydrofoil. It is almost immune to effects of waves (8 foot maximum for small boats), and provides a fast, smooth ride without requiring additional power. Currently some five or six companies build hydrofoils in this country. All of them started in the Navy's research program. Only a few of them are still doing research for us, but several sell hydrofoil boats for pleasure use. Some of these are Baker Mfg. Co., Miami Shipbuilding and Dynamic Developments Division of Grumman Aircraft. These companies have the advantage of years of research and development.

I would like to mention another area of interest to pleasure boatmen which we in ONR consider one of the few major breakthroughs in hydrodynamics in the last 30 years. I am speaking of course of the development of the supercavitating propeller. This device eliminates one of the last stumbling blocks toward higher ship speeds. The search for high speed hull designs has been given new impetus because we now have a means for propelling ships at the desired speeds. But let us first review propeller theory.

If we take short airfoils or wings and fasten them to a shaft instead of a fusilage, we have an airplane propeller. Each wing or airfoil is thus known as a blade. The blades

Looking like a flying saucer on stilts, this test hydrofoil craft by the Hydrofoil Co. of Annapolis, Md., may well forecast the shape of boats to come. The absence of bow waves and the minimum wake are deceiving. Performance figures for the experimental craft hinted at high speeds for the future.

are usually attached in a curved section so as to impart a spiral flow along the shaft. Marine propellers may be similarly described. In the operation of marine propellers there comes a time under certain conditions of thrust loading and/or speed where the local pressures in regions of high velocity are low enough to cause the water to boil or form bubbles of vapor. These bubbles persist on the blade downstream until they reach regions of sufficiently high pressure to collapse them suddenly on the blades, causing serious erosion. This usually occurs on the aft end of the blades. Propeller efficiency drops rapidly, resulting in lower thrust and lower speed then anticipated. In addition, the formation and collapse of the bubbles may cause serious vibration to the ship. This phenomenon is referred to as cavitation. Heretofore it has been the limiting factor in attaining high speed.

If the local pressure is lowered still more, however, and the velocity increased, the bubbles above mentioned grow larger and may be larger than the blade. When they do collapse, they collapse behind the blade, or the bubble may remain in a steady state condition. This is referred to as the "supercavitating" region. Racing boats, air-sea rescue boats, and similar high speed craft have used conventional propellers operating in the supercavitating region. However these propellers have a low efficiency in this region, and the efficiency continues to drop with increased speed. This factor has been accepted as a price to pay for operating in this region.

Now it is possible to design a propeller to operate efficiently in this region. Such propellers are called supercavitating propellers. The breakthrough referred to earlier was the mathematical solution to the problem whereby proper choice of the pressure face of the blade to give the desired lift-to-drag ratio enables the cavity or bubble shape to be calculated. The resultant cross section of the blade is a curved wedge instead of the conventional airfoil shape. Also the ends of the blade are usually square.

The one outstanding feature of supercavitating propellers is the increase in efficiency with increased speed. In other words, the propeller gets better the faster it goes. Propeller efficiency depends upon its lift-to-drag ratio. When a propeller operates in the supercavitating region, the lift decreases. But, with a supercavitating propeller, the drag is reduced faster than the lift, resulting in a higher efficiency. One of the first supercavitating propellers built was tested on a Canadian hydrofoil boat. The measured efficiency was 68% compared to a calculated 70%.

The one disadvantage of such propellers is their poor efficiency at low speeds or in the noncavitating region. However it is hoped to utilize these propellers at lower speeds by creating an artificial supercavitating condition through the use of ventilating air introduced at the blades. Propellers operating in this condition are referred to as ventilated. ONR is currently investigating ventilated propellers for several applications.

There are several other research areas worthy of mention. A competitor of the marine propeller is the pump jet. It normally doesn't become efficient until high speeds are reached. However its safety feature of having the propeller enclosed in a housing may be more important than efficiency, particularly for water skiing. I do not need to remind you of the accidents occurring each year involving a swimmer becoming entangled in a propeller. There are now at least two companies either developing or marketing a jet pump boat. These are both inboards.

One other item worthy of mention here is the annular jet vehicle or ground-effect machine. There is currently considerable interest here on the part of both industry and Government. The Navy is interested in these vehicles for both land and water applications. You have probably read about the British flying saucer recently tested over the English Channel. This is an annular jet device. These vehicles operate on a cushion of air over land or water. The NASA began research on these devices some three years ago; Navy research in this area began in 1957 at the Taylor Model Basin. The Office of Naval Research started a contract research program in this area in 1958 through its Fluid Dynamics Branch, of which this writer is a member. So far, there is insufficient information available to determine the actual usefulness of these devices to the Navy.

And so, to summarize:

1. Pleasure boatmen and the boating industry should take a close look at hydrofoils, supercavitating propellers, and jet pumps as sources of possible technological advancement.

2. Continued improvement in small boat hull design is possible, but this will require people having adequate training in hydrodynamics.

3. The future improvement of pleasure boats is dependent upon the quality of technically trained personnel. The industry can no longer hope to stay ahead without employing highly trained engineers and scientists.

But from developments now in the offing, the future of pleasure boating looks bright. — ⚓

Now in its 30th year, Lakeside Yacht Club is bulging at the seams. At the foot of E. 49th street, directly off Memorial Shoreway, its docks are readily accessible, but protected by Cleveland's east breakwall from rough waters of Lake Erie.

CLEVELAND'S LAKESHORE

Local clubs fought for—and won—more and better facilities for pleasure craft, and a program for teaching safety to newcomers

By F. M. Paulson

ACCORDING TO HIS JOURNALS, and who can dispute the written word of the man who surveyed most of Ohio's "New Connecticut," Moses Cleaveland arrived at the confluence of Lake Erie and the Cuyahoga River on July 22, 1796, "after a pleasant paddle along the lake from the eastward."

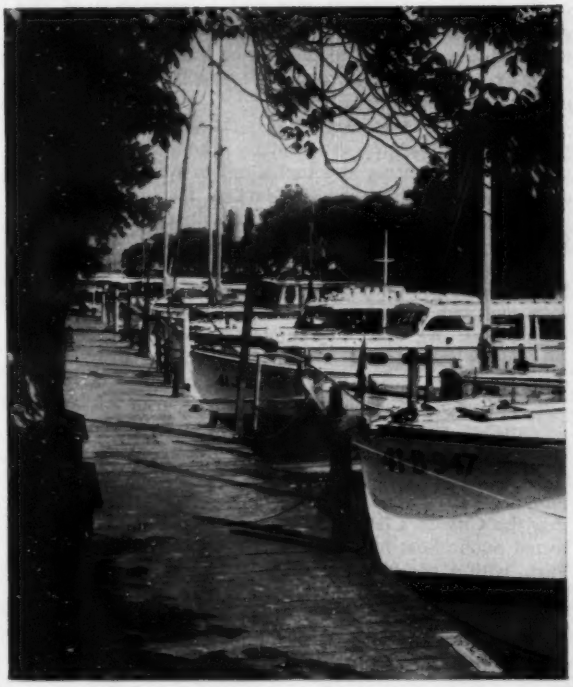
Today's legions of yachtsmen and small craft enthusiasts are inclined to feel that Cleaveland was blessed with phenomenal luck since Lake Erie, usually as pleasant a body of freshwater as can be found in this world, is as temperamental as a prima donna. Comparatively shallow for its size (9,960 square miles), and as fickle as the varying winds that ruffle its surface, Lake Erie can, in a matter of minutes, be transformed from a sailor's paradise into a chilling vista of ominous whitecaps. Indeed, many of Cleveland's estimated 75,000 small craft owners commonly refer to the international small craft warning flag as the "official Lake Erie Burgee," since it flies so frequently.

Influenced presumably by Cleveland's thriving maritime trade, pioneer yachting clubs arose early in the city's recreational life, and commercial vessels and pleasure craft have shared these waters in ever increasing numbers ever since. These early yachting clubs, organized in the 1850's were made up for the most part by people of social standing and substance. Popular, too, especially in the post-Civil War days were canoe clubs, made up, for the most part, of gay young blades who delighted in racing each other to lakefront picnic areas on Sunday afternoon.

Oldest of the existing clubs, founded in 1878, is the Cleveland Yachting Club whose docks once dominated the waterfront near the city's E. 9th Street pier, but now occupy an entire island in Rocky River, a few miles west of the Cuyahoga. Edgewater Yacht Club came into being in 1913

Since 1953, Cleveland has completed two large, protected, public boat harbors at Gordon and Edgewater Parks, with a combined capacity of 1000 boats, plus marinas east and west of the city in answer to the new boating boom.

BOATING BOOM



Oldest of existing yacht clubs, Cleveland Yachting Club now occupies an island in Rocky River, a few miles west of the Cuyahoga. For 60 years the club's docks were near the city's East 96th Street Pier, now the mooring place for world-traveling commercial shipping.

and the Gordon Shore Boat Club, an outgrowth of an old canoe club, in 1925. Newer on the boating scene, but bustling with activity and establishing their own traditions, are the Lakeside Yacht Club, Forest City Yacht Club, the Northeast Yacht Club, Westlake Yacht Club and the West Shore Boat Club.

To the west of Cleveland the famous old Lorain Yacht Club was founded in 1906 and the Vermilion Boat Club in 1914, followed a quarter century later by the Vermilion Yacht Club. Eastward, the Chagrin Lagoons Yacht Club and the Mentor Yacht Club were formed just before the great depression. In every case, those clubs within a 50-mile radius of Cleveland enjoy a high percentage of membership from the city.

Boating has always been a favorite avocation of Clevelanders, but the numbers of boats and skippers have sky-

CLEVELAND continued on next page

Photo Courtesy of The Sohioan

Historic Fairport Lighthouse is now a marine museum, frequently visited by Cleveland pleasure boatmen.

Education plus law enforcement

City built launching ramps at Edgewater Small Boat Harbor in answer to plea for such facilities.

CLEVELAND continued

rocketed in recent years. The total number of outboards in use in the Greater Cleveland area jumped an amazing 7300 in a one-year period. Distributors, too, say that a proportional number of 168,000 boat trailers sold in 1958 came to Cleveland owners, and hesitate to estimate the number of trailers assembled by ingenious do-it-yourselfers.

Despite their apparent strength in number, boat owners and users were somewhat disorganized and seldom vocal in seeking improvements for their use along Greater Cleveland's 23-mile shoreline. The city, meanwhile, had spent over the years, millions of dollars in recreational funds to build baseball diamonds, tennis courts, golf courses and recreational outlets of limited use to enthusiasts of one kind or another.

Things came to a head one night in 1953 when an aroused and now highly vociferous group of over 400 small craft owners and anglers met with a committee of city council. Councilmen, who thrive on statistics, listened attentively to a relentless recounting of funds spent for these other activities while the two most popular sports—fishing and boating, had little or no help.

A succession of speakers that night aired thoroughly the problems of fishermen and boaters. There were few docks available for mooring and fuel supplies were, of necessity, obtained at neighborhood gas stations. Parking space near the water had been reduced or made inaccessible by new highway construction.

Trailing their boats to other lakefront areas or inland lakes was no solution, the sportsmen argued, for here they were met with a confusing variety of local regulations and license fees. All this, they pointed out, because their own community in which they paid taxes, had failed to accord them equal treatment with baseball players, golfers, and square dancers. The picture painted was grim but factual.

Statistics, such as 80,000 fishing licenses sold in Cleveland in a single season, were, apparently, transposed in terms of voters to the councilmen, for action was almost immediate. In the intervening years since that 1953 meeting, the City of Cleveland has completed two large, protected public boat harbors at Gordon Park and Edgewater Park, with a combined capacity of almost 1000 boats. It has also completed three boat-launching areas. The one at Gordon Park, for example, can handle up to 500 boats a day. Shortly after plans were announced, the Cleveland Metropolitan Park System, suddenly aware that they had been neglecting a large segment of the recreation-minded population, built a ramp on their property along Rocky River, west of Cleveland.

Meanwhile, many enterprising individuals, even more enthusiastic about statistics, had already taken cognizance of the boating boom. All along Lake Erie, but particularly in the areas readily accessible to Clevelanders, waterfront plots, large and small, that held any promise of being developed at reasonable cost, were being snapped up by alert operators. On the east and west of the city marinas have sprung up in what was formerly useless marshland or farm pasture. Yacht clubs have expanded when they could, but from Fairport on the east to Vermilion and Huron on the west, the lakefront is now dotted with boating facilities that did not exist a few short years ago.

In 1955, the Greater Cleveland Safety Council, alarmed by the increasing number of drownings and water accidents, took a long, hard look at their waterfront and came away shocked and disturbed.

"We were not happy with our community's water safety record," says Paul J. Hoover, president of the group.

Officials, from surveying the entire boating scene and from complaints received, could put their fingers on many potential and, in the past, actual causes of mishaps. Experienced boatmen were not a problem. It was the vast armada of new craft, many of the novice skippers blessed with little knowledge of boating except how to start their motors and steer. Water skiers were zipping in front of and around the huge ore carriers entering and leaving the harbor. Hot-rod boat operators were risking the lives of many in their insane practices. Boats were ridiculously overloaded and in some cases fishermen were blissfully anchoring in the deep water freighter channels at night, often without lights. Compounding the problem was a continual influx of new converts, day by day, getting their first taste of their new hobby.

"It looked like a difficult task from the start," says Hoover. "However, we at the Safety Council felt that in a concerted and sustained effort at establishing a water safety program we had many things to offer:

1. Through our thousands of volunteer workers we could obtain public support of any boat safety program.
2. The Council has the means of distributing literature and posters on boat safety through our divisions that cover factories, commercial companies, schools and private homes.

combine to help boatmen here

Moroccan architecture is a feature of Mentor Yacht Club, founded just before the depression curtailed boating.

3. Our close relationship with the press, radio and television provides extensive coverage.
4. Our constant work with the police departments and public officials of the various municipalities gives us good liaison for quick action on the local level.
5. We have funds and a trained staff to handle the many details in connection with an energetic boat and water safety program."

The start of what has since become a model for community water safety programs began with a meeting with the eight agencies having an active interest in the subject. Represented were the United States Coast Guard, the Greater Cleveland Boating Association, the Cleveland Power Squadron, the United States Coast Guard Auxiliary, the Red Cross, the Cleveland Chamber of Commerce, the United States Weather Bureau and the Ohio State Waterways Safety Commission.

That first meeting of minds was discouraging. Each group felt it had a well-developed and effective program and they could see no necessity to coordinate activities. Each admitted, however, that not enough boat operators were being exposed to their training and educational programs. Each, too, recognized the urgent need for some form of safe boating regulations. Agreement on these two facets was at least a good starting point, although it took nearly three years and dozens of meetings to agree on the principle of coordination of the eight organizations.

A new and separate division of the Greater Cleveland Safety Council was formed for Boating and Water Safety. Walter Liesegang, then commander of the Greater Cleveland Boating Association and one of the city's most enthusiastic boat owners, was named vice president for the new division.

Liesegang and representatives of other boat and yacht clubs had already been working at drawing up some sensible boating regulations for the city's waterways. Conferences with representatives of Great Lakes freighter operators, commercial fishermen, water skiing clubs and skin diving groups provided valuable information on the needs and problems of each.

These regulations were adopted by city council in the form of an ordinance, establishing firm rules and providing for the prosecution of reckless boat operators with stiff fines and, in serious cases, a jail sentence.

"We were naturally aware of the Federal Boating Act on the horizon and the certainty of unified state laws," says Liesegang. "Our problem was immediate, but at the same time we tried to keep the rules in line with what we thought the coming state and federal regulations would include, to minimizing later confusion."

An added voice of authority was provided when Police Chief Frank Story assigned rotating shifts of police officers to ride the patrol boats the Coast Guard had volunteered. When city regulations were disregarded, the police officers could issue a summons, the violator to appear in municipal court, as in the case of an errant motorist.

"This was the sort of help we needed to show the boating public we meant business," Liesegang points out. "Up until then the Coast Guard had been doing a magnificent job, particularly in regard to inspections for safety equipment. However, operational infractions were hard to prosecute successfully because of the long delays and costs inherent in federal court cases."

Most important factor in the city's awakening to water safety was, so the Safety Council asserts, not the impact of the new rules or the resulting arrests, but a concerted educational program carried out throughout the city in 1958 by the organizations closest to the boating public. The Cleveland Power Squadron enrolled over 500 people in its elementary safe boating course and booked nearly 300 in its advanced courses. The Coast Guard Auxiliary trained over 500 in its basic safe boat classes and had over 700 booked for its 1959 schedule. They also made 4,250 courtesy safety inspections. The Greater Cleveland Boating Association provided 35 illustrated lectures on safe boating practices to over 2,500 people in boat clubs and other groups. In the Greater Cleveland area too, the American Red Cross reported that more than 15,000 attended its courses on small craft and water safety. Over 10,000 United States Coast Guard boardings for safety inspections and the distribution of thousands of posters to offices, factories, schools, yacht clubs and municipal docking and launching facilities were other big factors in making Clevelanders water-safety-conscious.

Young minds being receptive to schooling, most of the individual yacht and boat clubs have summertime classes in small craft handling and sailing for children in several age brackets. Often, after the courses have been completed, the young novices compete in events sponsored by the clubs, putting into practice lessons learned at the docks.

"Recent statistics, released by the Outboard Boating Club of America, show that the fatality rate in outboard boating reached on all-time low in 1958 while the number of outboard motors in use increased 2,882,000 in the past nine years," Liesegang points out. "These are national figures, of course, but we know that our program and others patterned after it played an important part in the falling accident rate."

Many Clevelanders, too, feel that the cooperative water and boat safety program has done much to bring the individual clubs together, friendly rivalries notwithstanding. This new spirit of "togetherness" is manifested in the new local boating newspaper, the Inter-Yacht Club News, published by Alex J. Gruszka and Eugene M. Symms.

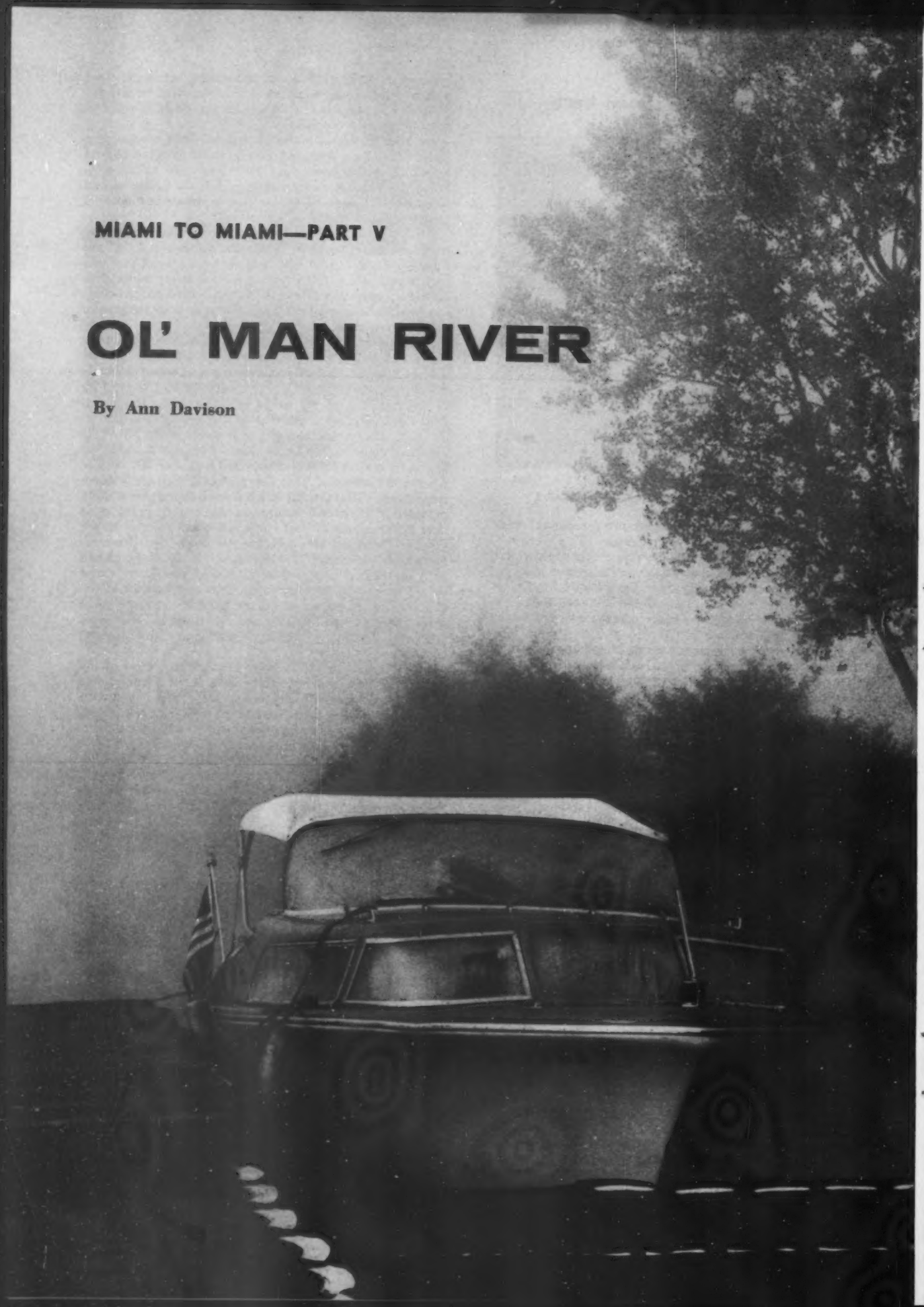
Whoever coined the phrase "melting pot of humanity" must have had Cleveland's boating public in mind. They run the gamut from laborer to board chairman; their chosen craft ranging from 12-foot skiffs and 10 h.p. motors to sleek, 65-foot luxury power cruisers, and from day sailers to big auxiliary yawls. An aggressive water and boat safety program recognizes no distinction, however, and the safety message is forcefully carried to all.

The problems faced in Cleveland were not new, nor were they substantially different from those now confronting small craft owners and public officials in other communities. Spurred on by a declining water safety record, a growing army of small craft enthusiasts and the necessity for immediate action, Cleveland did something about it. If water safety is one of your community's more pressing problems —take a long look at Cleveland! — ⚓

MIAMI TO MIAMI—PART V

OL' MAN RIVER

By Ann Davison



At flood stage, the Mississippi 'showed its teeth' to Miss Davison in her run from Grafton, Ill., to New Orleans

"Gemini at Cap Girardeau, Mo., where early morning fog delayed departure. It's folly to proceed on the river unless visibility is good. No one wants to be run down by a towboat which would never even know it hit you."

NO AMOUNT of previous experience on inland or any other waters prepares the small-boatman for a trip down the Mississippi. It is a cinch if tackled the right way, hell if not, and it is difficult to find out which is the right way because information is hard to come by.

There are plenty of Tall Tales and Addled Assurances of course. One hears there are no gas stops, nowhere to tie-up, that small boats are swept into and sucked down by whirlpools, run down by towboats, and sunk by the terrible debris. On the other hand, one hears there are no problems, plenty of gas, and that it is just a breeze going down river where the weather can't touch you and you can make fantastic time with the aid of a nine knot current. There is a shortage of non-romantic literature on the subject, and charts can be no more than a rough guide for waters whose channels vary by miles, and levels by 50 or 60 feet! Approaching, as I did, from the Illinois River can be misleading. Though the Illinois is a broad river and given to flooding too, it is *comparatively* conservative and orderly, whereas the Mississippi in its lower reaches is not the least conservative or orderly, and at times one strongly suspects it is not even a river. . .

The Mississippi showed its teeth to me at the moment I set keel in it at Grafton where the Mississippi joins the Illinois and begins to form the lovely island studded Alton Lake. A strong south wind was blowing, and when a strong wind meets a strong current the resultant chop makes a sailor wish he had stayed on the farm. The waves were high, steep, concave, hard as concrete and full of mud. If there were prizes for it, I guess the Mississippi would win for being the most turgid. It was a Saturday afternoon when I saw these teeth for the first time and there were a number of pleasure craft out pleasure bent, but it wasn't long before they all rocked off for home or the nearest shelter. One crawled under the cliffs on the Illinois side of the River and made fast to overhanging tree branches, more conservative myself, I went across to the Missouri side and took shelter in a harbor in the ordinary way.

This was at the Venetian Harbor at Portage Des Sioux where all the slips are covered and the entrance is just boat wide and the weather can hardly get at you at all. This was just as well because at that time the weather was getting at every place it could, with hurricanes in the Gulf, typhoons in the Far East, and tornadoes in my neck of the woods. For a week or more it rained and blew, lightning flickered constantly and tornado warnings came thick and fast over the radio as one storm followed another.

Then at last, when it seemed there was a break in the weather, I took off. It was still blowing, but from the west, which made it awkward only in places where the river took a westerly direction. Incidentally, you would be surprised how many times the river takes a northerly course when going south. The river had risen and there was a lot of unnecessary stuff: trees, logs and things going downstream. I went through two locks, at Alton and Chain of Rocks, alone except for the debris, most of which was much longer than *Gemini*. These lock are enormous, and when a wind gets in the bottom of them a small boat just about takes off. A line is thrown for you to hold in these locks, and keeping hold of that, keeping the boat off the walls and the logs off the boat made for an active operation. The Chain of Rocks lock is new and remarkable for simple folks like myself; it has gates that rise up out of the water like whales' backs and jolly bollards inset in the walls that slide up and down as the water rises or falls.

The River begins to funnel at St. Louis. The current increases near the bridges; the wind making waves and the waves hide monstrous debris. I was pretty tired of the whole thing and put into the Mound City Boat Works at St. Louis for some gas and cogitation. The Mound City Boat Works is a typical river harbor. It is obviously impracticable to build permanent structures where the water height varies so tremendously and unpredictably. Half the time they would be under water or else high and dry, so docks are formed by a series of barges which are attached to the shore by strong cables and winched in and out as the water rises and falls. Sometimes an old sternwheeler forms part of the harbor, which adds local color, and structures are erected on barges for clubrooms and showers, lending an appearance of purely spurious solidity, for it is not unknown for the whole works, boats and all, to be swept away when The River goes on the rampage.

Right now the river was busy going on a minor rampage. It was rising rapidly, and rafts of logs swirled by at an incredible rate of knots. Whole trees tore past, complete with roots and branches. At times the debris stretched clear across the river. Once a red nun buoy swung by, weaving and plunging on a wild ride to freedom. The channel buoys began to disappear, drowning on their mooring chains and becoming a hazard instead of an aid to navigation. A thousand miles of river lay ahead of me and I viewed the prospect with misgiving.

Would conditions improve, I wondered, if I waited a few days, or was this the sort of thing to expect all the way to New Orleans? Local intelligence behaved as local intelligence does the world over, giving the report it thinks you *want* to hear. If you appear to be in a hurry, then it is O.K. to go—keep upwind of the debris and you'll be all right. And if you seem to have time to spare, then it is worthwhile waiting, which leaves you no wiser.

Fortunately I met the Pattersons of the cruiser *Imp*

DAVISON continued on next page

"This is the lovely, landlocked Venetian Harbor at Portage Des Sioux, Mo., where I waited out tornado warnings and storms for more than a week."

"Near Cape Girardeau I hit a log, and it cost me a wheel"

"Pelican, a train ferry at Helena, is one of the few sidewheelers still in operation on the Mississippi."

"Mound City Boat Works, at St. Louis, Mo., is typical river harbor formed by barges moored to the shore."

DAVISON continued

(registered South Dakota for the now-I've-seen-all department). They were waiting it out at St. Louis, believing, as I do, that pleasure cruising should be fun. Mr. and Mrs. Patterson had made several trips up and down the Mississippi with the river at all stages and had made a study of cruising it. They knew just where and how to get gas, the best places to tie-up, and under what conditions it was best to travel. Generously, they shared this knowledge so that my trip down the river was a breeze, quite one of the most interesting and enjoyable parts of the whole cruise. But without their valuable know-how it might well have been one of the worst.

Every night the Pattersons reported to me the river stages, as broadcast over the ship-to-shore radio for the benefit of commercial traffic, and every night it seemed the river would never stop rising. And the higher it rose the more debris it brought down. Then at last there was a drop at St. Louis, and the waters began to clear. We gave it a couple more days so that we would not catch up with the flood and debris as it moved down river and then set out.

My usual method of power cruising in inland waters is to keep the gas tanks topped up and choose the overnight stops as it gets near sundown. This doesn't work on the river. Gas stops dictated the days' runs, which at times were only 50 miles. But it might take four or more hours to get gas, and the next stop might be 150 miles away. It is extremely unwise to cruise the river at night and I certainly did not relish anchoring in the swift current. There are various tributaries and cut-offs where one might anchor, but they must be approached very carefully as depths cannot be shown on the chart of course, and they are changing all the time. It is not impossible for the level to fall overnight to such an extent as to leave you up a creek without any water at all. This can happen, too, if you choose to spend a night on a sandbar.

It is impossible to tie up where the river banks are revetted, and not too safe to tie up where they are not, for the river is permanently employed on a big scouring job and towboats have been buried under a sudden landfall. There may be an occasional barge or towboat moored along the shores to which one can make fast for the night, but one cannot rely on finding one when wanted or be sure it will not be moved during the night.

Never one to *look* for trouble, I chose my stops conservtively. My first one from St. Louis was at Cape Girardeau 127 miles away. The scenery was impressive, the skies were bright and the water reasonably calm. But it was a fairly anxious trip, as I had yet to "learn" the look of the lights, daymarks and disposition of buoys, and it is very hard to see going downstream as you are going into the sun most of the time. Also a number of buoys were "drowned," just a bubble of water indicating their presence, which presented a formidable hazard. The Corps of Engineers are forever laying out and lifting buoys to mark the channels at low or high stages, but it is unavoidable that the river is always a little ahead of them. Strictly speaking, in their own interests, at flood stages when the buoys are drowned small boats should not be out on the river. Then too, on the run to Cape Girardeau I ran into a lot of debris. It is easy to avoid the stuff you can see, but there is also a lot you can't see—I hit a submerged log, not very hard, but it cost a wheel. Fortunately I was not very far from Cape Girardeau at that point and had another motor with which to finish the run. Also I had spare wheels aboard and it is no problem to change them on an outboard, but there are many travellers on the river who are not so lucky. If there is debris about you are going to hit some, and whether you sustain any serious damage or not is purely a question of luck. Everywhere I stopped I heard sad tales of bent shafts, busted props, stove-in hulls. One boat was hauled four times between St. Louis and Memphis.

There is a gas pump on a small floating dock just before one reaches the walled town of Cape Girardeau operated by an eager, helpful little boat club and it was here that I met another of the river hazards. Fog. I woke in the morning to find the world reduced to a matter of feet. It is folly to proceed unless the visibility is good on the river because even if you don't mind running aground, no one surely wants to take the risk of being run down by a towboat. Which would never even know it had hit you. Towboats are to be respected at all times. They push fantastic loads and are not easily maneuverable, and they leave a wicked wake which churns up the river for miles. It is advisable to avoid passing one on the landward side.

But the fog did not last long and I had a lovely sunny run to Cairo, which lies on the Ohio River, a nice clean river whose waters are reluctant to mix with the muddy Mississippi so that they run together side by side, thick and thin, for several miles. The gas situation at Cairo comes and goes. The local yacht club is defunct, and when I was there the gas pump, leaking frighteningly, was operated in the evenings only by the Sea Scouts. I have heard since that even they have given up, but at least one can tie-up there for the night, for the next stop is at Carruthersville, 114 miles down river. The Carruthersville Yacht Club has a small dock and gas pump up a sheltered creek which lies on the right bank going downstream. The entrance is about a mile above the town and quite easy to overlook. Inci-

DAVISON continued on page 82

This attractive, compact little seafaring village with its white, red-roofed houses set in groves of coconut palms and flowering shrubs, presents one of the most picturesque harbors in the Bahamas. On approaching from Nassau, steer for the southwest corner of Charles Island which marks the old entrance channel, now used only by small local boats, then follow the shore line closely, well north of the pointers where depths run from five to six feet at low water. Once past the pair of port and starboard stakes, the channel turns northward and the dredged entrance is easily apparent. Good anchorage may be found anywhere in the harbor with depths from nine to seventeen feet. Here, in addition to its famous water, fruits, vegetables and seafood are in abundance. Limited quantities of groceries and gasoline are also available and there is a marine railway capable of taking vessels up to five and one half foot draft. This is Spanish Wells, settled by Royalists during the American Revolution.

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dentally, amongst river folk, the "right" bank remains right, even when going upstream.

My next stop was at Memphis, 120 miles further on the way and, with the exception of Greenville, the best stop on the river. Memphis is a very attractive, friendly town with a strongly developed civic pride. The yacht club is extremely hospitable and has all the facilities, as well as being within walking distance of the downtown section—which always makes a big appeal to the transient boatman. Memphis is a very active river town, and there is a fine new harbor project being developed in a lake a few miles down

"The Pattersons, on their cruiser Imp, have made several trips up and down the Mississippi, and have made a study of cruising it at all flood stages."

the river, primarily of course for commercial traffic. But Memphis also boasts a thriving, 16,000, pleasure boat population.

The lack of boats on the river is very noticeable. Outside of towboats and a few cruisers southward bound I saw very, very few boats, probably half a dozen in a thousand miles. Altogether it is a very lonely stretch of water on which you see little of anything, even the few towns being hidden behind levees. There are no facilities at Helena, 73 miles below Memphis, but there is a gas pump operated by a friendly if occasional attendant, a good little dock to tie up to.

And there is the *Pelican*. The *Pelican* is an *enormous* deep breathing monster with a tin piping voice masquerading as a train ferry. A side-wheeler that I could hardly take my eyes off, and if she hadn't stopped running in the afternoon I'd have sat up all night to watch her. The *Pelican* is one of the few paddle boats still operating. The Engineers still have one, the *Mississippi*, which I met one day, and she really threw a wake. It must have taken the river five miles to settle down after her passing. But they tell me that the worst of all in this respect was the *Sprague*, a sternwheeler now used to house the Vicksburg Yacht Club. Her wheel was 40 feet by 40 feet and she left a wake with a 12-foot wave. She caused so much damage to the revetments and sank so many boats she was finally retired from the river. Unfortunately I did not see her as she had gone on temporary exhibition at Pittsburgh.

On the way to Greenville, the next stop and a run of over 130 miles, I passed two young men floating down river in rubber tires bound for New Orleans. It seemed a cold uncomfortable way of travelling and I wondered how they coped with the whirlpools. These did not affect *Gemini*, as her speed carried her over them, but I don't imagine a rubber tire could offer much resistance and would have to whirl where the whirlpool wanted to go. Greenville is an interesting fast developing town and the yacht club there is most hospitable. It is also the last link, so to speak, with civilization for the boatman bound for New Orleans. There are only four more travelling days to the end of the line but the stops are far between and the facilities are nil. Vicksburg is a perpendicular town lying 103 miles below Greenville on the Yazoo River, a fairly unlikely name, but the grocery store I went to there was called the Jitney Jungle, which seems even more unlikely. In fact the whole harbor is highly improbable now that the Yacht Club is up at Pittsburgh and you have to tie up to an astonishing mess of barges, but at least there is a gas pump at Vicksburg and it is the last one sees until New Orleans.

The temperature which had been on the low side ever since Milwaukee soared into the eighties for a lovely run down to Vidalia from Vicksburg. Vidalia is on the right bank opposite the historic town of Natchez. Neither town has anything to offer the boatman. There is a tiny floating dock-like arrangement at Natchez and nothing at Vidalia. But Vidalia was on the leeward side of the river, and *Gemini* spent the night comfortably enough alongside a tugboat and was gassed up from a gas truck that came over the levee down to the shore and got somewhat bogged in the loose gravel. The gas hose was brought out to the boat by dinghy and of course everyone in sight was involved in the operation. People on the river certainly make up in friendliness and cooperation for what they lack in facilities. Overnight the temperature plummeted to 30 and the run to Baton Rouge next morning was the coldest I've made since I was in northern Scotland. It was a rough run too, but I didn't care, I drove crashbangtinkle to get to Baton Rouge before I became brittle and cracked as did the aluminum casting that supports the top.

Ocean steamers come upriver to Baton Rouge where they anchor midstream and generally clutter up the fairway. Towboats are everywhere but there is nothing, *nothing* for the pleasure boat. Red's Boat Store, a provisioning base for commercial vessels, allows you to tie alongside their barges, and if the water is high enough a small boat can creep round in back of the barges and lie protected. But large boats must lie outside and take what comes, which can be pretty rough. One refuels at a tanker, a midstream refuelling vessel, if it is not midstream refuelling someone. Again this is a courtesy accommodation, because the pleasure boats have to be refuelled from 50-gallon drums which are carried on deck. This is quite an operation, but put through in the usual good natured obliging manner customary in the South.

On the way to New Orleans I passed a towboat called *Felicity Anne*, which gave me a nostalgic moment or two, and coincidentally in the lock at New Orleans, the skipper of the tugboat alongside which *Gemini* was tied, said, "Hey, I remember you—in New York Harbor with a sailboat after your Atlantic crossing.

New Orleans was unusually quiet with very little river activity going on. Normally there are several tows waiting at the lock, but the gates were open and I went straight through. From there it was but a skip and a jump to the Municipal Harbor on Lake Pontchartrain and the Mississippi section of the cruise was over.

It is a trip I should like to make again one day. But not alone next time. Single-handed you miss a lot of the scenery for you are too busy checking lights and buoys, which come up fast when your cruising speed is 25 mph, as well as keeping a sharp eye out for logs. No time to take in much of the view. Some people seem to think this is no loss, but I do not agree. To me, the great wide winding river is very beautiful, and I look forward to having another longer look at it one day. — ⚓

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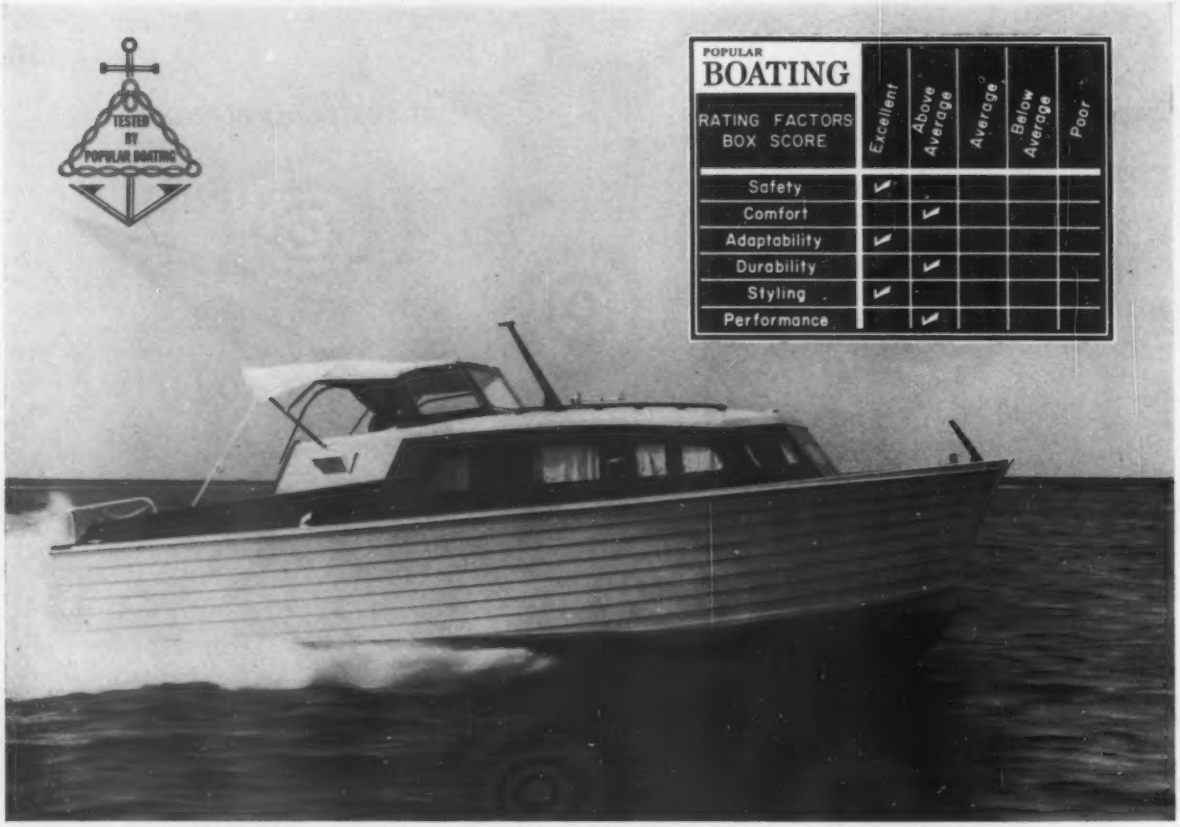


Well over thirty miles an hour are possible in this roomy sea-kindly hull.

POPULAR BOATING tests

THE VENTNOR 28

This new inboard cruising skiff features an interior arrangement designed for comfortable and roomy living afloat

By Hank Wieand Bowman

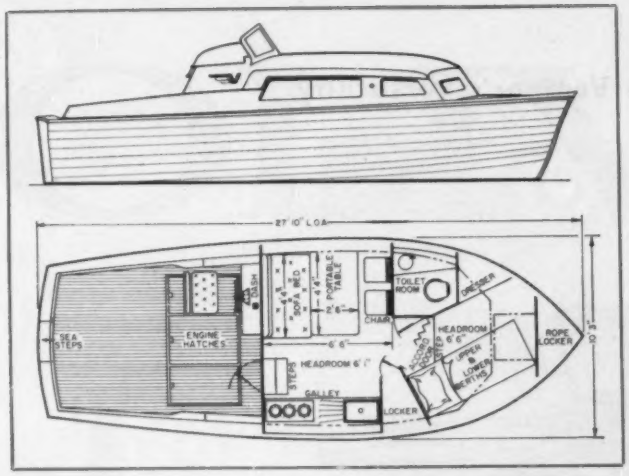
TO SOME POWERBOATING enthusiasts, the name Ventnor spells speed-on-the-water, for under the direction of the late Adolph Appel and in more recent years the designing acumen of Arno Appel, Ventnor's speedboating accomplishments have been legend. Such famous Ventnor-designed and built Gold Cup winners as *My Sin, Tempo VI* and *Miss Pepsi V* were awesome sights at the peaks of their careers.

Many of today's pleasure boatmen who gained their initial zest for the water in the Navy may have been skipper or crew on one of the Ventnor 85′ or 104′ air-sea rescue boats or 110′ sub chasers which earned the coveted Army and Navy E award.

However, neither flashing speed nor combat starkness were features that attracted us to Ventnor's latest production model, its 1960 28′ cruising skiff. Rather our interest stemmed from a series of thoughtful and unique features that were incorporated into this blue water, all-family four-sleeper.

This Ventnor is 27′10″ in overall length. It has a 10′2″ beam and though the particular model we tested had been christened *Harmony*, its interior finish and much of its planning are reminiscent of Appel's own custom-built *Fantasia*.

The price of the boat with standard equipment fitted with twin direct drive 177 hp Chrysler installations is $10,495. *Harmony* would list at $11,130 with the same power. The additional $635 represent a number of items that the boatman must have in order to conform with Coast Guard regulations and recommendations, plus some accessory features that add to comfort though you could cruise without them. The optionals include what Ventnor terms a Coast-Guard Kit: anchor and anchor rode, two mooring lines, two 2½ pound dry chemical fire extinguishers, four jacket-



type life preservers, and a fog bell at $105. An electric windshield wiper at $40, electric bilge pump, $75, and electric bilge blower at $50 were also items on *Harmony* that are optional extras. Convertible top and side curtains certainly add to comfort and the $195 price plus $85 additional for a backdrop is not excessive. Another item on the boat we tested that wasn't standard is 110-volt wiring which costs $85, including a 50′ extension cord. This option certainly will be worthwhile for any owner planning to cruise extensively with stopovers at marinas where shore current is available.

Our rating of excellent for *safety* was based in part on such items as the double-planked bottom, sturdy oak framing, heavy oak stringer and keels and other rugged structural features.

The deck hardware and the oak mooring post with chrome bit will keep the skiff from straying from her mooring. Windshield and cabin ¼″ thick safety glass throughout will relieve the skipper from worry of shattering glass during a heavy blow or accidental breakage if topside or interior gear should be tossed about.

The plywood decking is faced with a non-skid surface. Cabin top grab rails offer secure handholds, as do the stainless steel bridge grab rails.

Smaller thoughtful items have also been considered by her designers. The three-burner propane gas galley stove, which in standard format is fitted with a five-pound propane tank, has been installed with the thought of safety foremost. The back of the covering board is metal faced, and the tank is mounted in a neat, mahogany faced, metal-lined box located in the cockpit; the box is fitted with an overboard vent.

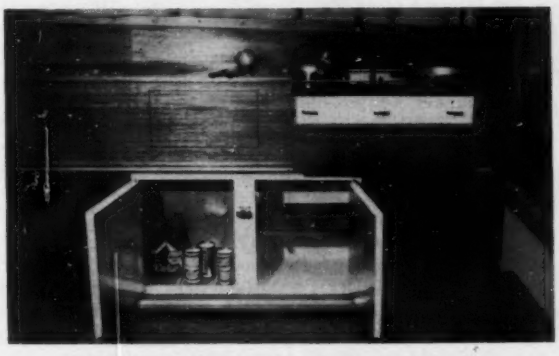
Stainless steel trim around the engine access hatches fits snugly and has no jagged corners or sharp edges. The same applies to two additional cockpit hatches which offer easy access to the rudder mechanisms.

The cockpit rail is sufficiently high to prevent any accidental stumbling overboard should a passenger lose his balance. Perhaps of greatest importance is the unobstructed helmsman's vision and a well thought-out control panel with the Marmac hydraulic engine and shift controls in a comfortable and convenient location for safe handling.

In the *comfort* rating, we graded the Ventnor above-average. Since this particular boat had been designed with all family cruising as a primary function, we deviated from our normal testing approach by viewing comfort not only through the skipper's eyes but also through the eyes of the skipper's wife.

Comfort rating was reduced from a potential excellent to above-average because of two factors, though aside from these I found the boat to be one of the most comfortable 28-footers I had ever been aboard.

This plastic-covered, accordion-pleat door separates main and forward cabin.



Galley features three-burner gas stove with guard rails, stainless steel sink, cutting board, and large, double-door icebox.

At anything above a cruising speed of about 2400 rpm the after section of the cockpit was wet. At low speeds exhaust gases tend to roll up over the transom. My own feeling on this was that the four exhaust lines are placed too deep on the transom so that the pressure of the exhaust gas tends to pick up water from the wake where it is caught by the turbulent air stream billowing in behind the stern. It's more than possible that this detracting feature may be corrected, but there were no two ways about it, the aft section of *Harmony's* cockpit was wet.

I also found the noise level objectionable. This is commonplace aboard most highly-powered modest sized cruisers. It will be partially remedied in future models, for the manufacturer is already installing acoustic tile to the underside of the cockpit flooring of its present production models. However, I would strongly recommend an addi-

TEST continued on next page

Hinged transom ladder adds to the Ventnor's versatility

'Sea Steps' should prove popular with water skiers, swimmers and skin-diving fans as well as big game fishermen. And it's also convenient for boarding from a dinghy.

TEST continued

tional optional feature that wasn't on the model we tested: exhaust mufflers. These list at $25 apiece. The twin V-installation would require four but what's another $100 added to an $11,000 investment?

Her clinker design and soft forward lines combine to make her easy riding in a chop. No owner will need worry about pounding. She is also a stable boat, has little tendency to roll, is notably lacking in tenderness, and even at full rpm speed with hard port or starboard helm, she will not toss about the unwary.

Her *adaptability* is excellent. One unique feature is wholly exclusive to the Ventnor 28 though it's a feature we expect to see widely copied. This is the Sea Steps, a hinged transom boarding ladder that is certain to make this boat a favorite with swimming, skin diving and underwater photography fans. It should be equally popular with water skiers, and fishermen, who will find the Sea Steps a spot to pull aboard real game fish easily and a feature that may bring some of the big ones which otherwise might be pretty hard to gaff over the rail. The Sea Steps will also eliminate a boarding struggle from a dinghy for the guy or gal en route back from market with an armload of groceries, a case of beer, or a 50 pound chunk of ice.

My own first mate felt even more strongly about the Ventnor's adaptability; here are her comments:

"Perhaps I don't have the proper pioneer spirit, but one of my pet peeves is the so-called 'vacation' when the lady of the family must lower her standards and put up with inconveniences, primitive discomforts, and work much harder than she does at home. I am not an advocate of roughing it.

"For this reason, I rate the arrangement of the cabins of the Ventnor 28 with a resounding excellent for a combination of *comfort, styling* and *adaptability*. The cabins epitomize gracious living afloat. Here is one moderate sized boat on which you do not have to live in a clutter of sink, stove and cooking ware, sleep on the dining room table or serve cocktails in the kitchen.

"The main cabin offers a spacious 48 square feet of living area. It is furnished as standard equipment with an attractive Castro settee, which converts into a normal apartment style double bed, and two Samsonite aluminum occasional chairs, which are lightweight and can be carried out to the cockpit for daytime use. In fact, as far as adaptability is concerned, the restless housekeeper can rearrange the furniture in the cabin to her heart's delight. The settee is not fixed though it has rubber casters under the legs to keep it from sliding around. It can be moved about to suit the living-room arrangement of your choice.

"To the starboard side is what appears to be a handsome mahogany buffet, with sliding drawers and cupboard storage beneath. Many an apartment kitchen could take a tip from this design because under the top is concealed a generous 11¾″ x 19½″ by 6″ deep stainless steel sink with wooden drain-cutting board and a three-burner stove. The center doors beneath the buffet conceal a metal-lined icebox.

The dining table, which for storage straps in place upright in the roomy closet forward of the buffet, is formica topped. Though there is a lip around the edge to prevent chinaware from sliding off in rough going, the corners have been left open so that the table can be easily wiped down (some woman helped in the planning of this boat, I suspect, or a man accustomed to helping around the house!). With the 28″ by 48½″ table in place before the settee and the two arm chairs drawn up, you have a spacious and comfortable dining area for four. With the sink and stove lids closed, the buffet can be used as a serving sideboard and you do not have the feeling of eating in the kitchen.

"The head (john, if you must) is also bright and airy and has a nearly full length mirror on the inside of the door.

"An accordion fold door separates the two cabins. I wasn't too crazy about the door, especially since it locked on the inside, and I wouldn't want my children to lock themselves in, but I am sure a different latch arrangement can be worked out.

"The forward cabin is also equipped with a couch ar-

TEST continued on page 88

OLIVER

Precision built in England for dependable and all around service to American boatmen

The English are a practical people. The products they make are built to last. The 1960 line of Oliver outboard motors are economical, durable and painstakingly made . . . a perfect example of British craftsmanship. They are American designed for light weight and compactness, with cat-quick get away, high load carrying ability and top speeds. Hundreds of owners have testified that Oliver outboards have outperformed higher horsepower competitive models. Top-flight engineering and craftsmanship produce smooth, precise motor operation. Many years of faithful service at lower operating costs will confirm your wise decision in favor of an Oliver. 1960 models include 6 hp, 16 hp, 35 hp and twin counter-rotating 35s for 70 hp. Finished with durable baked marine type (epoxy-resin) paints in turquoise with white trim. See your Oliver dealer or write for full details.

American designed . . . British built

Visit us at the National Motorboat Show, New York Coliseum, Booths A-71 and 72, First Floor.

OLIVER OUTBOARD MOTORS

137 HAMBLIN, BATTLE CREEK, MICHIGAN

Division of Oliver Corporation

'It's even possible to rearrange furniture in this large cabin'

Dinette table in main cabin folds for storage in a closet. Castro divan converts into a double bed.

Designer Appel, right, shows test author Bowman the access to wiring harness under helmsman's controls.

TEST continued

rangement, the back of which swings up and, supported by straps (which are extremely easy to snap in place), forms double decker full-length 30″ wide bunks for sleeping. The bunk mattresses are filled with a plastic foam lining which is claimed not to absorb odors and is fire retardant. We tried to burn some of it and it would not support fire.

"The curtains in the forward cabin are hung on double aluminum rods top and bottom of the large windows so they will not flap in the breezes but will stay open or closed as you wish.

"I felt strongly that any woman, and her whole family, too, no matter how spoiled, would be extremely comfortable in the gracious cabins of the Ventnor 28."

We rated this cruiser above-average in *durability*. I carefully inspected a number of companion models in varying stages of production on the line and noted a number of plus features not normally applied to similar boats built by Ventnor's competition.

One of these is the ⅞″ white oak over felt wormshoe applied to the outside of her 3″ by 12″ keel. In her specs, the keel may be alternately constructed of white oak or fir. The models I checked had select grained white oak keels. Her bottom consists of ¼″ marine plywood, covered with canvas laid in bedding compound plus a ⅝″ solid mahogany planked outer skin. The transom, too, is double planked and the ⅜″ overlapped strakes of her sides also are of ⅝″ solid mahogany. Silicon bronze fastenings are used throughout. Struts and rudders are manganese bronze; shafts are Tobin bronze, strength equivalent of Monel.

Her two baffled 50-gallon gas tanks are Monel, and the 20-gallon fresh water tank is fabricated of stainless steel. Her oak sheer rails are protected with a stainless steel strip as is the stem, though the latter is referred to as a stainless steel cutwater, which is an exaggeration.

Her cabin top is constructed of marine plywood, covered with bedded, trowel-filled and painted canvas. The finish throughout is excellent and her side paint is as smooth as baked enamel.

Cabin windows are fitted with self-draining sliding glass window grooves, ½″ higher on the inside than the outside as an added protection against the entry of beating rain or driven seas. Her cabin windows are also fitted with unique overhang "eyebrows" which blend neatly into the design of the cabin. She is screened throughout with fiberglass mesh.

The Ventnor 28 is built to last. She's too ruggedly constructed to shake apart, and her builders have not cut corners on materials or the "homework" type of production labor. Her cabin bulkheads have been carefully fitted to her sides. Trim hasn't been used as a cover up for sleezy workmanship.

However, like any wood boat, past or present, she will need loving care, attention, and periodic refinishing.

We gave her an excellent in *styling* despite the somewhat boxy exterior appearance of her cabin, for she is styled with adaptability and comfort foremost. She's a product of utility rather than high style flash, which all too often comes from draftsmen more talented in designing streamlined carpet sweepers, deep freeze or TV units.

The Ventnor's *performance* is also above-average. The *Harmony* was fitted with 13 by 15 Stannus wheels. Here's what I recorded as averages of two-way clocked runs with and against the tide over a measured half mile:

At 2400 rpm, she clocked 24.928 mph.

At 2600 rpm, 26.925 mph.

At 3000 rpm, 28.852 mph.

At 3400 rpm (near engine peak), 30.108 mph.

The fastest half-mile I recorded was running with the incoming tide when she made a one-way speed of 34.091 mph and her tach needles were steady at close to 3500 rpm. In any of these speed ranges, she could be turned easily, either port or starboard and showed very little drop in speed in hard-radiused 180 degree arcing.

Starting into a hard turn at 3000 rpm, she was able to reverse direction while lugging down only 50 rpm. At a cruising speed of 2600 rpm she had a slight tendency to fall off to the starboard but not enough to require excessive pressure on the helm to maintain course. — ⚓

it's show time

ALL ACROSS AMERICA!

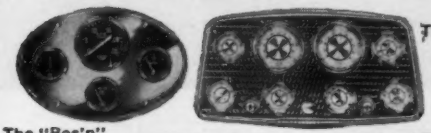
—see the all-star cast of Stewart-Warner Instruments!

Keep that promise to yourself. Time to start thinking about next summer . . . to remember all the jobs you wanted to get done to make your boat just a little better this year. Time to get the things you need. Outboard or inboard . . . racer, speedboat, ski-boat, cruiser, or auxiliary . . . Stewart-Warner has the right instrument panel and the right instruments to help you make your boat look better and run better. Look at this line-up for 1960.

Instruments—Stewart-Warner's famous line of marine engine instruments. The standard of quality. Weatherproof brass cases, provision for indirect lighting . . . heavy-duty internal parts for accuracy, long life, and resistance to shock and vibration. Your choice of "Twin Blue" or black and white face dials. For inboard or outboard use.

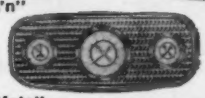
Stewart-Warner Marine Speedometers—The finest in marine speedometers for inboards or outboards. Two speed ranges available . . . 0-40 mph and 0-60 mph. The one instrument every boat needs for greater safety, economy, and enjoyment. Available in "Twin Blue" or black and white face dials. Keep that promise to yourself . . . put a Stewart-Warner Speedometer on your boat this year.

Tachometers—Stewart-Warner makes the finest in marine tachometers for permanent installation. Choice of electrical or mechanical models; "Twin Blue" or black and white face dials. And for checking the speed of any engine which does not have a built-in tachometer, there are Stewart-Warner portable tachometers.



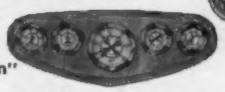
The "Master"

The "Bos'n"



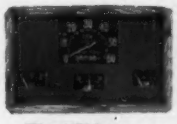
The "Mate"

The "Navigator"



The "Ensign"

"Customarine" Panels—Panels are available in three finishes: engine turned, black wrinkle, or black lined chrome. All ready for indirect lighting. Easy to install. A size for any requirement.



The "Skipper"

The "Pilot"

"All-in-One" Panels—All instruments are mounted under the same glass. All exposed parts brass. Provision for indirect lighting. Chrome Bezel.

The "Admiral"

The "Commodore"

Announcing a New Concept in Panels—Non-metallic . . . molded of a rubber plastic which effectively combines modern functional beauty with the resilient toughness required by marine use. Non magnetic, highly resistant to acid, alkali, oil, and grease. Choice of gray or beige.

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THE REMARKABLE DORY

This boat has served sailormen well, and many of today's able pleasure craft are direct descendants of the line

By John Gardner

THE DORY, and the fisherman who rowed it, are a part of the maritime heritage that changed America from a group of shore-bound colonies into a nation with ships that ranged the waters of the world. From the icy, fog-wreathed outports of Newfoundland and Nova Scotia, from Portugal, from New Bedford, Fall River and Gloucester, countless men have sailed in schooners to the Grand Banks to handline from dories for halibut and cod. To find success in the North Atlantic, men and boats had to be tough and able, and the Banks fisherman and his dory were just that.

In the fall of 1880, Thomas R. Lee of Gloucester, while hauling a halibut trawl on the Grand Bank, was thrown from his dory by a heavy sea. Struggling toward the surface, he drove one of the big hooks completely through his finger. Grabbing the trawl above his head with his other hand, he ripped himself free. As he floundered to the gunwale, another hook caught in his clothing. His dory mate was too stunned to help. When he finally rolled over the side back aboard, he fell spent in the bottom of the dory.

And, concludes the old Fisheries Commission account: "This is an instance of the dogged pluck of the typical Gloucester fisherman, for after recovering from the first exhaustion, he persisted in hauling his trawl and filling his dory with fish, before returning to the vessel."

It was all in the day's work. And some did not come back. Dory men froze to death at the oars, disappeared in

DORY continued on page 92

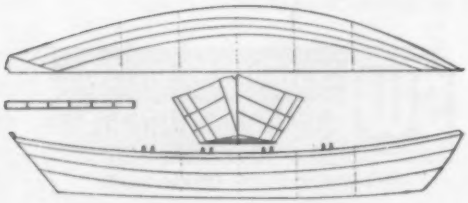

Fig. 1 The Banks dory, father of the line, was 21 ft. overall; used for hauling codfish trawls.

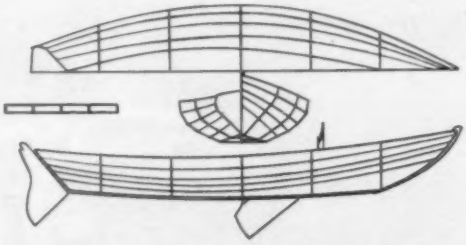

Fig. 2 Massachusetts' Swampscott dory was 15 ft., and built by Chaisson with centerboard.

Photo by Gordon Thomas, Gloucester, Mass.

This historic photo was taken during the heyday of the sailing "Saltbanker." The shot was taken from the rolling deck of the schooner "Imperator," owned by the Gorton-Pew Codfish Co. It shows "Imperator's" double-dories pulling off to the banks to haul their trawls. The dorymen raced each other out, and the hardest fishing, hardest rowing crew were top men of #1 boat.

DORY EXPERT JOHN GARDNER *was born and raised on his family homestead on the tidewater of the St. Croix River at the head of Passamaquoddy Bay, Maine. His family background includes 300 years of New England seafaring men, ship builders, land surveyors, and farmers. For the past 20 years he has worked at the boatbuilding trade in Marblehead, and Salem, Mass., mainly on yachts. Much of his spare time is spent in designing, studying small-craft history, and in model making. For nearly a decade he has been a regular contributor to "The Maine Coast Fisherman," and more recently became its Technical Editor.*

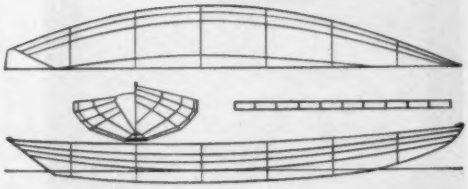

Fig. 4 Eventually all round dories were called "Swampscotts." This is by C. D. Mower.

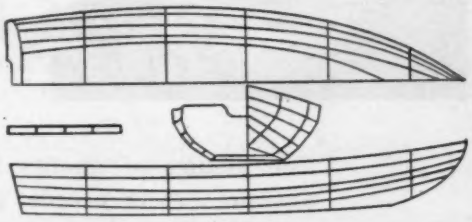

Fig. 5 Semi-dory is used in lobstering with outboards. This design is by the author.

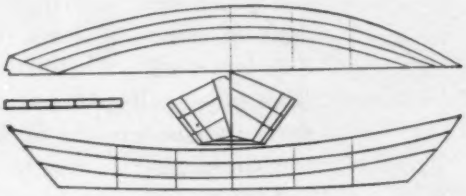

Fig. 6 Coast Guard pulling surf dory, 19 ft.; was built by Lowell, Amesbury, Massachusetts.

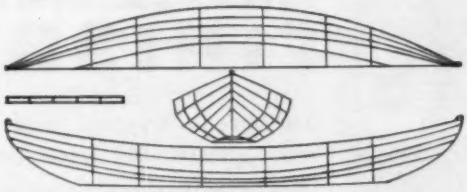

Fig. 7 C. G. double ended beach patrol surf dory resembles 19′ design by author for Texas Co.

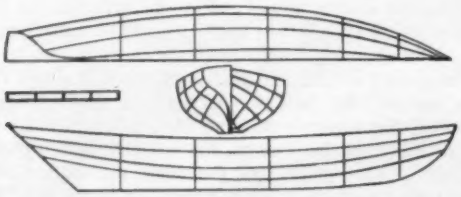

Fig. 3 Penobscot Bay type wherry was 15 ft.; it was built by Brooks, Ash Point, Maine.

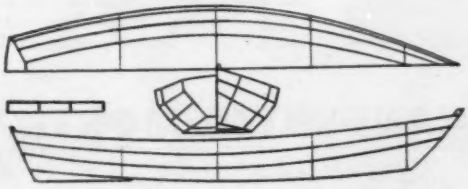

Fig. 8 The famous Amesbury dory-skiff is used extensively today by pleasure boatmen.

The picture of quality is never obvious . . . in people, products or paint. Many times, true quality is not known until after the fact . . . the personal crisis has been met, the product has been used or the paint has withstood the ravages of many seasons. We hope our attractive Carmote racing blue label will give you a hint of the superior quality of the product we make . . . but in the end, only the performance of . . . . . .

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DORIES continued

the fog never to be seen again, went to the bottom when their over-loaded dories swamped in the icy waters of the Grand Bank.

Thousands and thousands of men in dories. Their travail helped build the strength and wealth of this country, and made Gloucester at one time the greatest fishing port in the world. So, like the covered wagon, the Bank dory has become a symbol of past greatness.

Tradition has it that the Bank dory [Fig. 1] was "in-

Photo Courtesy Peabody Museum, Salem, Mass.

The start of a dory race at Marblehead in the 1890's. These dories are still semi-work boats. Photo is by the late Willard Jackson of Marblehead, Mass.

This 17′ pulling and sailing dory was built at Owl's Head, Maine, in 1952, from lines taken off an old boat and redrawn by author-designer John Gardner.

vented" shortly after the American Revolution by Simeon Lowell at Amesbury, Massachusetts. North Atlantic fishing demanded a work boat that was cheap, rugged, able, and capable of great burden. The Bank dory is all that and more. Its stiff, wide-board sides allow removable thwarts, so that many dories may be stacked or "nested" on the deck of the fishing vessel. It is true that unloaded the Bank dory is cranky and awkward. But put in a thousand pounds of fish, and she settles down and stiffens up wonderfully. It should be understood that the Bank dory is not the easiest boat to row, either light or loaded. Nor is the type well adapted for sailing.

The shore fishermen used few Bank dories, choosing types less heavy and clumsy. Wherries and peapods predominated in Maine. Massachusetts lobstermen developed a lighter, easier-rowing, round-sided dory, now widely known as the Swampscott dory [Fig. 2].

It has been reasoned that the more shapely, round-sided shore dories are refinements of a primitive straight-sided prototype. But it seems more likely that both types derived from the wherry [Fig. 3]. The wherry is old. In Penobscott Bay wherries survived until recently as work boats.

Wherries are superb sea boats. They are round-sided, deep, slack-bilged, and clinker planked. A plank keel makes a narrow, flat bottom. Virtually a double-ender on the water, the wherry's transom rises tall, pinched, and raking aft. Like the Bank dory, the wherry trims higher at stern than at bow. Also like the dory, the wherry has single-futtock (single-rib) sawn frames set in matched pairs that cross on the bottom board.

DORIES continued on page 97

more boat . . . more fun afloat in a Glastron

The Boat for 1960

Thrills never dreamed of await those who climb aboard Glastron in '60 . . . Swept-line design for new contours, new control . . . to match anyone's wish for performance supreme . . . beauty that's a dream. Deeper, super-stressed hull, with Glastron's hydro-dynamic stabilizers, self-bailing splashwell, straight-beamed transom. Molded-in maintenance free holiday colors. In design, in performance . . . Glastron's the boat of the future, yet yours for '60!

16' Glastron STARflite

Fisherman's dream from Gulf to Great Lakes . . . a deep-water delight; it's sturdy — yet stylish. Like all Glastron's, double-bottom means heavy duty. STARflite extra: lap strake construction! Roomy . . . rugged for he-man fishing, but suave, swept-line design, too. Wide walk around gunwales, salt-water resistant fittings. Hard chine . . . soft lines. Go after big ones . . . go STARflite! From $995.*

L.O.A.	Beam	Depth	Tran. Width & Height	O.B.C. Gross Load	Wt.	Rec. Max H.P.
16'-4"	77"	37"	73" x 21"	1750	500 575*	90

Photographed at Cypress Gardens, Florida

Swept-line design gives superb, sleek styling from deck top to transom tip. Go Glastron for greater stability, too — off shore, at rest. High, super-panoramic windshield is fastener-free.

Hull design features hydro-dynamic stabilizers for greated stability, sharper turns, and a smoother ride. Deeper splashwells for drier rides in any water.

New flat floor, for smooth comfort, steadiness for deck chairs.

Wide straight beam bonded transom adapted for '60 motors meets all O.B.C. specifications.

L.O.A.	Beam	Depth	Tran. Width & Height
15'-3½"	70"	33"	66" x 16"

O.B.C. Gross Load	Wt.	Rec. Max H.P.
1330	425 475*	75

*Depending on seating arrangements

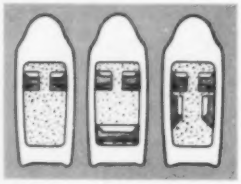
Speedy, all-purpose FIREflite with hinged hard-top . . . top flite performance, too!

Smart, "sport convertible" fiberglass and chrome hard-tops make smart FIREflite, STARflite and BAYflite even smarter. Top swings back in full arc for easy passenger boarding. Firm, quick latch connection. Also, soft-tops, side curtains, custom hardware and complete line of accessories.

DESIGN BY HAMILTON
Glastron

15' Glastron FIREflite

FIREflite for '60 world's most popular and proven runabout . . . supremely symbolic of swept-line design, yours for skiing or fun-filled family cruising. New beauty outside. Molded-in firm fiberglass with gold Mylar side panelling, gleaming Glastron colors: Matador Red, Gull White, Jet Black, Bimini Blue. New comfort inside: plush, embossed seats with three in 'n out arrangements: in for family, out for fishing. It's the Glastron FIREflite for overall sleekness, for slicing thru wave or wake! From $845.*



Three boats in one! Three, easy in 'n out arrangements with permanent front seats; side seats installed, removable in a jiffy; quick-as-a-wink change for rear seat. Rear seats removable for on shore seating.

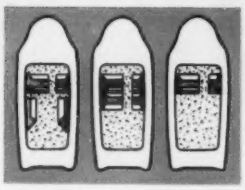
Standard Glastron Features for '60*

Perma-Flok interior, deluxe windshield, cleats, 2 tone seats, steering system, step pads, bow eye, chrome gunwale guard, drain plug, durabrite trim, splashwell, Glastron medallion and name plates. Molded-in individual gas tank and battery partitions. Delivered rigged.

*Slightly different on SKIflite.

18' Glastron BAYflite

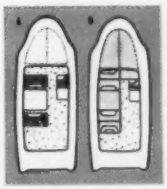
Big, beautiful BAYflite conquers rough Gulf waters and larger lakes with new finesse . . . new safety-first features. Extra stability, unequaled dry ride; walk-around gunwales; deeper splashwell makes a difference, too, when backing in rough waters; three seating arrangements make it versatile . . . very popular with the real fisherman. Plush, fine appointments, rugged, molded, maintenance-free fiberglass outside . . . salt-water resistant throughout. Standard highlights: flat floor, double bottom, twin engine transom cutout, for up to twin 60's in beautiful "blue water" BAYflite! From $1275.*



Glastron BAYflite seating arrangements to suit any notion . . .any need. Removable for on-shore use. Flat floor gives extra space for deck chairs.

18' Glastron BAYflite Cruisette

Truly, the limousine of the Glastron line, BAYflite Cruisette is big, roomy runabout or sport fisherman by day, with forward or aft facing seats . . . as you wish. By night, converts quickly to sleeper accomodations. Both seats and hardtop are removable in a jiffy for use as an open boat. From $1795.*



The BAYflite Cruisette; by day, (A) Either forward or aft facing seats as you wish, switched in a jiffy. Hinged hide-away table for meals or cards. By night, (B) quickly converts into a sleeper for two adults, two children. Fiberglass storage compartments underneath double seats.

Head for open waters, new thrills, new swept-line design in BAYflite, too!

L.O.A.	Beam	Depth	Tran. Width & Height
18'-0½"	85½"	45"	82" x 21"

Weight	Rec. Max H.P.	O.B.C. Gross Load
BAYflight 650-750* BAYflite Cruisette 900	120	2400

*Depending on seating arrangements

14' Glastron SKIflite

The sportcraft leading the parade for '60 . . . SKIflite. Low price, high styling make it a favorite for family fun. New thrills await those who ski behind SKIflite. More room . . . more comfort aboard . . . swept-line design from sculptered deck to sweeping transom make it look lower, longer — perform better. Careful contours, gleaming maintenance-free fiberglass for the finest in a luxury low-priced craft. Self-bailing splashwell, plush, embossed seats; unmatched dry ride. Super panoramic windshield suitable for soft-top. Sharper turns . . . sharper interior with SKIflite! From $645.*

L.O.A.	Beam	Depth	Tran. Width & Height	O.B.C. Gross Load	Wt.	Rec. Max H.P.
14'-2½"	62½"	28"	60½" x 16"	1100 lbs.	325 lbs.	45

*Prices shown do not include freight, optional equipment, or dealer make ready

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5. Completely bonded transom assures maximum rigidity with higher horse power engines.
6. Custom deck hardware, exclusively Glastron.
7. Built-in gasoline tank and battery compartments.
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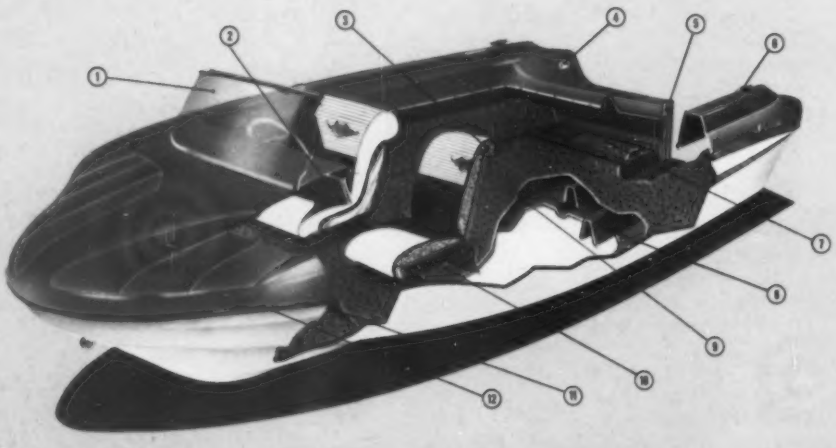

DORIES continued

Simeon Lowell's "invention" appears to have been a simplification of wherry lines to allow easy planking with wide pine boards, which were then plentiful and inexpensive. This meant a cheap, mass-produced work boat. Old Simeon is said to have called his "invention" a "wherry," although the Cape Ann fishermen called it a dory.

The round dories developed with the lobster fishery. Lobstermen became proficient in sailing them, and by the 1880's

Photo for Popular Boating by U. S. Coast Guard

This fine action photo shows the 19' pulling surf dory used by the Coast Guard for rescue work along the Atlantic Coast. Note steering oar held by coxs'n.

were racing them for fun—on Sunday mornings and gala holidays like the Fourth of July. Dory racing clubs sprang up. At the turn of the century interest was hot in North Shore towns such as Nahant, Swampscott, and Marblehead.

In 1898 Robertson of Nahant built the Clipper dory, an open 20-footer on slimmed workboat lines. Down the beach in Swampscott, Elbridge Gerry Emmons's dory factory was turning out specialized racing dories advertised and sold from the Adirondacks to Florida and west to the Great Lakes. Eventually, all round dories got to be called Swampscott dories, except in Marblehead and Salem [Fig. 4]. The Beachcomber Club in Marblehead and the Alpha Club in Salem raced a champion product from the Marblehead shop of Bill Chamberlain. Eventually the "Beachcomber," and other undecked semi-work dories, had to give way to more powerful and specialized racing dories.

The most active and numerous sailing dory class today is the Massachusetts Bay Indians with some 30 boats racing in Boston harbor, and perhaps 20 more on Narragansett Bay. The Indian was designed by Alden in 1923 and built by Chamberlain of Marblehead. Another big sailing dory is the 18 foot Yankee designed by Brown of Marblehead, of which a few are still raced by Swampscott owners. The Marblehead Town Class is also a dory.

Just as soon as gasoline engines appeared, fishermen began putting them in dories. Chamberlain built a round, double-ended, partly-decked dory launch in lengths to 26 feet. It was an able boat. Out on Cape Ann, Montgomery modeled round dories for power, planking them smooth, and in some cases eliminating the flat bottom entirely. These, and similar power dories by Hammond at Danvers-

DORIES continued on next page

Here are a few of hundreds of unsolicited comments from fishermen who put PENN Reels on board...

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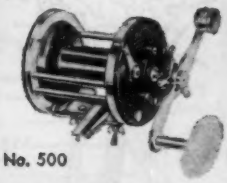
250 lb. Black Sea Bass caught by Earle M. Cayce of Los Angeles, Calif. with a PENN Jigmaster: Mr. Cayce said: "This No. 500 Penn Jigmaster reel with a 30 lb. test W-40 monofilament line was a champion reel and it performed perfectly. I am very glad to nominate it to all fishermen for plenty of action and faultless operation."

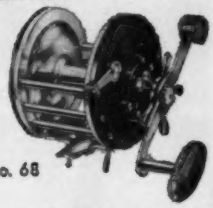


No. 500

88 lb. Wahoo caught by Curtis A. Dunaway, Lake Mary, Florida with a 9/0 PENN Senator. Mr. Dunaway said: "I went deep sea fishing and all the reels aboard were Penn reels. I landed a 6½ ft. 88 lb. Wahoo so I would like to be one of many to say in my book Penn reel is the best."

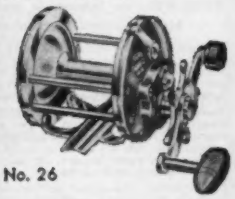
9/0

170 lb. Tarpon caught by E. J Dugan, Tampa, Florida with a PENN Long Beach: Mr. Dugan said: "The 2 reels I have are in perfect condition after 2 years rough treatment. I have recommended the Penn No. 68 to other fishermen interested in line capacity for reels in the Tarpon tournaments."



No. 68

72 lb. White Sea Bass caught by Dr. Charles M. Dorshkind, Beverly Hills, California with a PENN Monofil No. 26: Dr. Dorshkind said: "It was this No. 26 reel that helped so much in boating this 72 lb. White Sea Bass on 20 lb. test line—a new I.G.F.A. world record."



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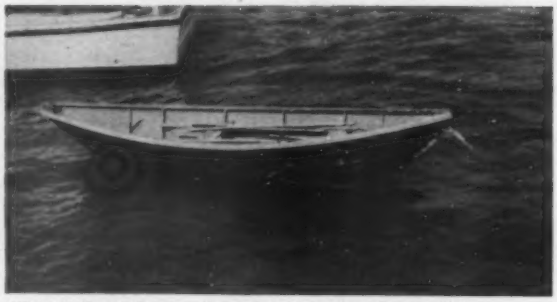
DORIES continued

port, reverted to wherry shape. Similar power dories south of Boston became well-known as Cape Cod Dories.

New engines and changing fishing methods put the inboard power dory out of business. By the 1930's, fishermen had turned to larger and faster boats, mostly imported from Maine and Nova Scotia, and powered with auto engines.

But the versatile dory has remained. A new crop, with outboards over the stern, are everywhere to be seen. Some

The author rows a 19 ft. double-ended surf dory, built by him in 1955 and designed for the Texas Co. for use on the west coast of Nicaragua.



With "Liberty" proudly painted on her bows, this little 17' Dion dory, built by Ed. Coffin of Owl's Head, Maine, lies to her painter and serves as a tender.

of these are small dory skiffs; others are the so-called larger "semi-dories" [Fig. 5] used for lobstering, and capable of off-shore runs for sport.

A limited number of the straight-sided Bank dories are still used by fishermen for "mackerel taxis," and other rough work. The U. S. Coast Guard has an excellent small pulling surf boat built on modified Bank dory lines [Fig. 6]. These are not as shapely as the round, double-ended surf dories [Fig. 7] formerly built by Chamberlain and Chaisson for beach patrol boats, but they are good, able boats, nevertheless.

Not to be forgotten are the dory skiffs of 13 to 14 feet for rowing, once well-known as the Amesbury skiff [Fig. 8]. These combined a high, sharp bow with a smallish, raking transom and a well-rockered bottom, quite narrow according to modern style. Skiffs of this size today have straight, wide bottoms for outboards, and are no good for oars. Few of the present generation know the feeling of a good rowboat.

A lot of different boats in the past 150 years have been called dories. For work and sport, for rowing, sailing and power, ranging in length from 10 to nearly 30 feet, they all have much in common. And how about the lumberman's bateau, some of which look so much like Bank dories, and are built so like them? Is the bateau a fresh-water dory, or the dory a salt-water bateau?

These dories of the past are also for the future. Amateurs and individualists keep rediscovering them—their shapely lines, simple construction, and superb performance. When maturity comes to American boating, the dory will be there. — ⚓

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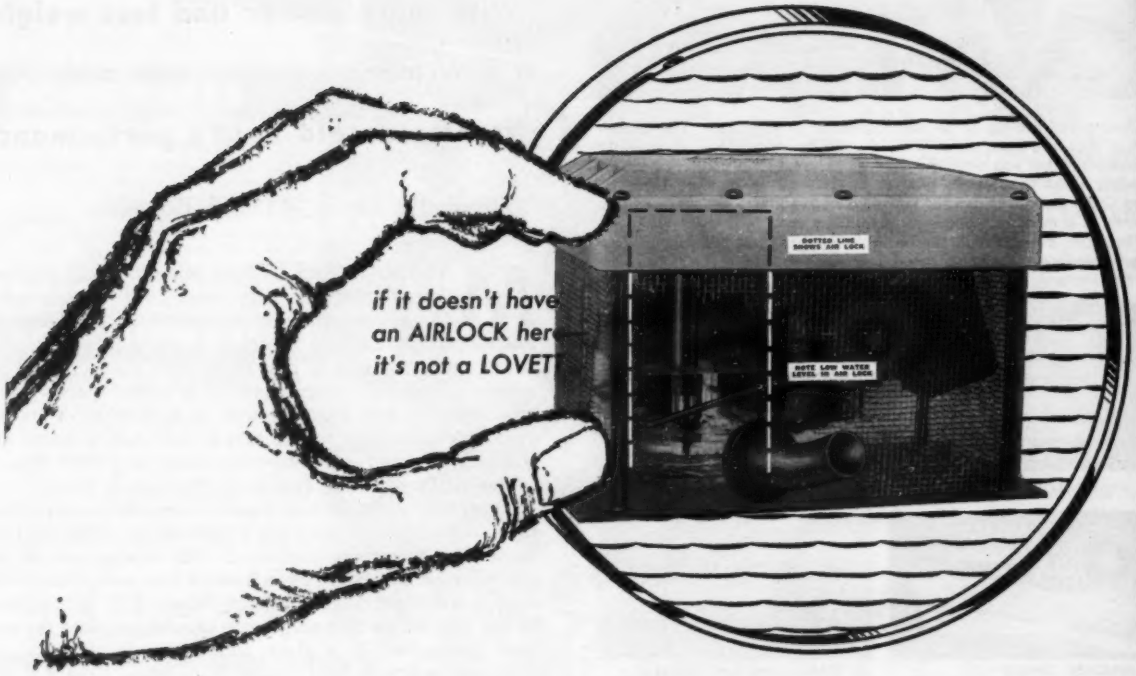

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PART XII

MORE SPEED for your BOAT & ENGINE

With more power and less weight, a new marine engine can add zest to an old boat's performance

By Hank Wieand Bowman

MANY OWNERS of older inboard boats are completely satisfied with their craft's accommodations, seaworthiness, and handling characteristics, but they begin to think of trade-in when they find some newer models powering past them with ease, cruising far greater ranges, and often operating at higher speeds just as economically. But boatmen who keep abreast of marine engine developments realize that if their hull is sound and still incorporates the features they desire in a boat, there is no reason they can not modernize their power plants.

Every day yacht brokers handle completely sound boats ten and even fifteen years old which are desirable buys because they have been revitalized with new power. If you find yourself with a boat you hate to part with, except that once in a while you are a little embarrassed or disappointed by her lack of get up and go, you should look into the new crop of inboard power plants with a view to change.

In buying a new boat, you will doubtless have a horsepower choice. It is nice to have a reserve of power and speed for when it is needed, so it may be wiser to choose the greatest possible power compatible with your boat design and budget.

Many improvements in inboard marine powering are of recent origin. It was just a little over ten years ago that the first hydraulic transmissions were included on inboard engines as factory equipment. Today manual controls are a rarity.

If your boat has its original power, is ten years old, and at the time you bought her was fitted with a Chrysler power plant, for example, she probably has either the Model M-48 Royal Special (an eight cylinder-in-line that develops 165 hp from 323.5 cubic inch displacement) or the then exciting new Majestic, at 376.9 cubic inch, six cylinder-in-line that develops 160 hp with 4" x 5" bore and stroke. The bore and stroke of the Royal Special was 3¼" x 4⅞" with a 7 to 1 compression ratio.

If you have been pleased with the basic performance of your Chrysler, you would probably plan to stick with the same make of engine. Your present selection of a 1960 power plant, however, offers 115 added horses if you replace the original engine with the Chrysler Imperial V-275, a 354 cubic inch displacement V-8. Your original Majestic weighs over 1425 pounds. Your new power plant would, depending upon the type of drive selected, weigh somewhere between 1100 and 1250 pounds. You will be getting your additional 115 hp in a package weighing 175 pounds less. The weight reduction may in itself add meas-

SPEED continued on page 102

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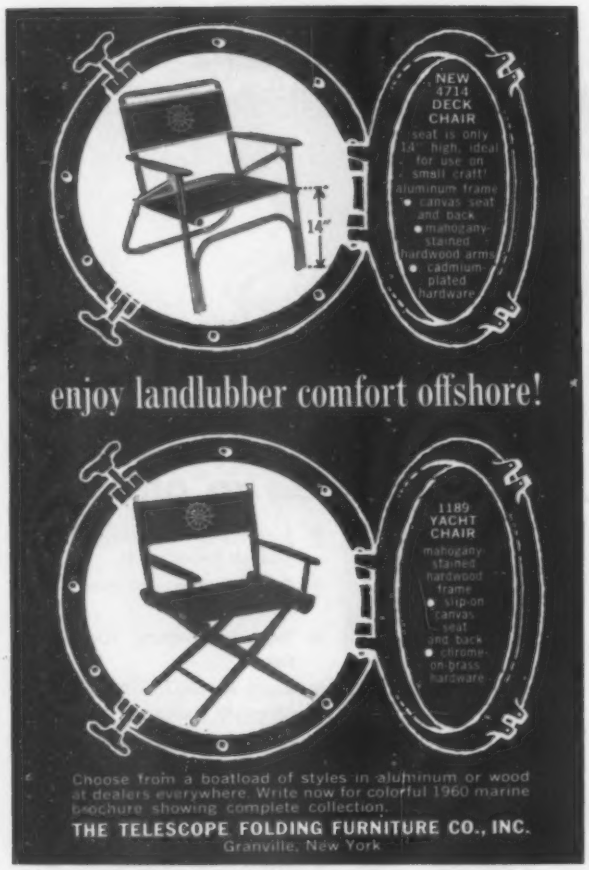

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SPEED continued

urably to your speed; certainly the 115 additional horses will.

But one of the problems that faces every boat owner when he replaces one power plant with another of larger horsepower is whether or not available engine room space will accommodate the new engine. In this case, the 1950 Chrysler Majestic was 59″ long, 27″ wide and 31″ high. The V-275 with straight drive is 45 1/16″ long and with reduction gear under 56″. The width is only 22½″ and height (above the shaft) under 24″, with a maximum below the shaft clearance of 9 5/16″ to as little as 6¾″.

There you have it. It will certainly fit with room to spare and give you far greater horsepower and most assuredly will increase your speed.

This same revolution of possible maximum horsepower available ten years ago versus horsepower available today in lighter, more compact packages has been apparent in the designs of all the major marine engine builders.

Chris-Craft's most powerful engine in 1950 was the 160 hp, six cylinder-in-line, 404 cubic inch plant which developed its rated horsepower at 3000 rpm. For 1960, Chris-Craft has announced its Model 430, a V-8 delivering 275 hp at 4000 rpm with non-premium fuels. The compression ratio of the new 430 is 8 to 1. The power plant has a 4.3″ bore and 3.7″ stroke. The dry weight of the engine is only 994 pounds. Its 275 hp is delivered at less than 3½ hp per pound of engine weight as compared to 7½ pounds per horsepower in its most powerful engine less than a decade ago.

Of those marine engine producers who offered powerful engines ten years ago and are still producing, each has managed to accomplish a far more favorable weight-to-horsepower ratio and in most instances for 1960, offer power plants 50 hp or more than their largest in 1950, yet far more compact.

Flagship Marine, for example, topped its 1950 line with a 226 cubic inch piston displacement, six cylinder-in-line, 100 hp motor while ten years later Flagship produces four engines ranging from 145 to 240 hp.

Gray Marine this year features a V-8, 225 of 327 cubic inches, 50 hp greater than 427 cubic inch 175 of 1950.

Universal and its subsidiary Norseman Marine (once manufactured by Nordberg Mfg. Co.) has increased its six-cylinder power from a maximum 90 hp Universal 6 of 260 cubic inches to 165 hp with its largest 6 of 340 cubic inches, and the Nordberg peak of 135 hp with 340 cubic inch six has been increased to 275 hp in the 430 cubic inch Norseman eight-cylinder V-King.

Dearborn Marine Engines offers a 240 hp, V-8 Interceptor of 361 cubic inches; this power plant weighs only 870 pounds. Dearborn's most potent, a 430 cubic inch, 275 hp Big Boy V-8, with all accessories weighs only 1010 pounds.

Another relative newcomer is the Crusader, which packs 325 hp in a V-8 of 365 cubic inches. This, with an overall engine weight, less accessories, of only 825 pounds.

Palmer, another old line manufacturer, was proud of its 320 cubic inch, six cylinder-in-line, 120 hp engine a decade ago. Today, Palmer offers a rugged V-8, 300 hp engine based on the potent, durable International Harvester truck engine assembly.

All of these modern V-8s are offered with a wide selection of reduction gears as well as straight drives. One of the easiest approaches to gaining more speed is to modernize with complete new marine engines ready to install. Your selection is a broad one from among the engines made specifically for marine use.

How much more horsepower you will want in your boat will depend upon the capability of the boat to handle more horsepower safely, a factor of design, and the new speed you hope for. Assuming the hull design is not changed and the weight of the boat is not materially altered except for

SPEED continued on page 104

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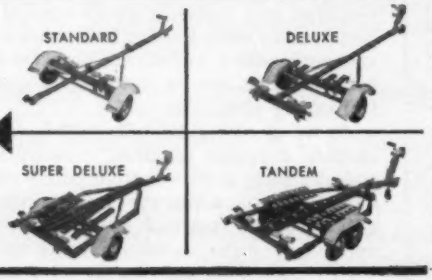

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SPEED continued

reduction of weight of power plant itself, your boat will have at present a fixed maximum speed on the basis of pounds per horsepower. Say you own a 20-foot runabout, currently fitted with a 100 hp engine, and the boat with operator, fuel, and the normal complement of accessories weighs about 3500 pounds. The peak speed of the boat at the present time, we will assume, is 24 mph. You would like to be able to top at least 30 mph with the outfit.

Boat designers over the years have been able to establish some general performance figures. A runabout of approximately this description could be expected to perform at 30 mph with the ratio of about 22 to 23 pounds per horsepower. Without changing your boat design, and assuming you already had the boat fitted with proper propeller during previous operation, you would have two alternatives; either to stick to the 100 hp motor and find some means to trim 1300 pounds of hull weight, which unquestionably would be impractical, dangerous, or downright impossible, or to increase the horsepower to the point where your boat design's pounds-per-horsepower ratio reached 22 to 1. Thus if you were contemplating a new engine, you could divide the figure of 22 pounds into your hull's 3500 pound weight and the result would be the approximate power you would need to achieve your goal. You would find that a 160 hp motor would just about fill the bill.

The next question you would have to answer, or have a more experienced technician answer for you if you do not feel qualified, would be whether or not your 3500 pound, 20-footer, which was reasonably safe with a 100 hp installation capable of pushing it at 24 mph, would be safe with the added horsepower at 30 mph. No generalities can be made in answer to this because it will depend wholly on the boat, bottom design, and center of gravity. But quite obviously, a boat that was already critically powered with 100 hp will not be safe with 160 hp.

Safety, too, is a relative thing for the inboard hull and its power plant. Safe for what, would be the question you must ask. Some drag boat advocates own 17-foot monoplane designs with 300 or more horsepower that are capable of reaching speeds of over 100 mph. These boats can be considered safe for the purpose for which they were designed and when they are operated by skilled helmsmen who know the calculated risks they are facing. The same boat in the hands of an untrained boatman will be as lethal as a fused bomb.

Properly selected, however, it is obvious that modern inboard marine power plants in a new craft or as replacement for older engines can give the speed and top performance that every boatman wants. Repowering does not entail merely pulling out one power plant and replacing it with another. While a lesser power plant may have been perfectly satisfactory with a straight drive, the added horsepower may call for a reduction gear. Certainly there will have to be propeller change. As we have already indicated earlier in this series, a heavier shaft may be in order. Beyond this, the present rudder or rudders may have to be cut down, or balanced rudders substituted. These improvements will all aid in obtaining peak performance from your new engine.

One modification in a boat frequently will set off an entire chain reaction. This is why a power change for certain craft may represent an economical way to gain better performance while in other hulls, a trade-in on a completely new outfit with a well-mated, new power installation is the better decision. Advice on this from a qualified naval architect can be invaluable.

As we discuss more fully in this series such factors as rudders, propeller selection, modifications in hull design and ultimately move out from purely pleasure boating into racing speeds and how they are attained, the reader will be able to evaluate how each of these factors can influence and improve the performance of his own boat.

Next month we will discuss valve timing and effects of cam shaft design on maximum power output. — ⚓

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BOOKLETS

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LEGAL REQUIREMENTS, for boats, with safety advice. U.S. Coast Guard (196)

RULES OF THE ROAD, U. S. Coast Guard (199)

PILOT RULES, Great Lakes, U.S. Coast Guard (200)

OUTBOARD FISHING, a 16-page, comic-book style booklet on fishing. Evinrude Motors (346)

TIPS FOR SAFER CRUISING, an excellent booklet covering weather hints, rules of the road, emergency equipment, and fire prevention afloat. Walter Kidde & Co. (335)

OUTBOARD HANDLING, a guide for the use of boats, motors, and trailers. Outboard Boating Club of America (205)

HOW TO COVER YOUR BOAT WITH FIBERGLAS, a valuable and practical book. Owens-Corning Fiberglas Corp. (235)

VENTILATED BOAT COVERS made of industrial nylon, an explanation with free fabric samples. Herculite (334)

HOW TO SELECT AND BUILD WITH PLYWOOD, Douglas Fir Plywood Association (252)

SELECTING AN AUXILIARY, Advice on choosing an inboard power plant for your sailboat, illustrated, including questionnaire to be completed and submitted for specific advice. Universal Motor Co. (342)

FISHING TIPS. A handy illustrated guide with 12 pages of detailed advice on fishing. Johnson Motors (183)

MARINE ENGINE CONVERSIONS, specs and prices of new kits and equip. Lehman Mfg. Co. (310)

NAUTICAL GADGETRY, a catalogue listing equipment not altogether necessary aboard ship, but handy to have and a section devoted to flag etiquette. Ships Store (344)

BOAT CONSTRUCTION with "Fiberglas" Flat Sheet Panels, 24-page booklet with plans for a sailing pram, plus photos illustrating building and other valuable information. Owens-Corning Fiberglas Corp. (336)

QUESTIONS & ANSWERS About Ropes of Du Pont Nylon & 'Dacron' Polyester Fiber. Du Pont (340)

ANCHORS & ANCHORING, a sixteen page instructive booklet extensively illustrated. All about anchoring. Danforth Anchors (13)

SEA HORSE FAMILY BOATING GUIDE, a 36-page illustrated book full of valuable information on boating, safety and fun afloat, plus many various helpful hints for boatmen. Johnson Motors (322)

WATER SKIING, instruction in how to enjoy water skiing written and illustrated in comic-book style, 16 pages of valuable information for beginners. Evinrude (305)

LIFETIME BOAT PROTECTION. Booklet describing Marine Celastic, a tough, versatile hull and deck covering for boats of all sizes. Wasco Products (347)

BOAT PAINTING HELPS, 38-page booklet on the application of paint on wood, metal and fiberglass boats, plus a "Normal Paint Requirement" estimator for boats 10 to 60 feet. International Paint Co. (304)

OUTBOARD PROPELLERS, a 24-page catalog in full color, with valuable information on theory and performance of propellers; a selector table for all makes of motors and boat sizes and types; racing props, plus boat accessories and skis. Michigan Wheel Co. (284)

RADIO STATION DIRECTORY, for Atlantic, Gulf and Pacific Coasts lists international and phonetic alphabet, aircraft radio range beacons and commercial broadcast stations. Bendix (345)

FITTING-OUT CHECK LIST, a detailed list of important things to do when getting your boat ready to go. Darworth, Inc. (312)

HOW TO REPAIR YOUR BOAT with A Cordoglas Speedkit, a booklet explaining fiberglass repairs. Cordo Chemical Corp. (331)

HOW TO USE A FIBERGLASS REPAIR KIT, a six-page set of instructions with 28 illustrations on repairing fiberglass boats, fiberglass covered hulls, wood, steel and aluminum boats, with a fiberglass repair kit. Glass Plastics Corp. (314)

FISHING WITH AN OUTBOARD, a helpful guide to getting the most out of an outboard motor, written especially for fishermen. Kiekhaefer Corp. (315)

LESSON FOR LANDLUBBERS, tells all about outboard boats, including a discussion of hull design and a study of outboard motors. Glasspar (348)

INBOARD ENGINE INSTALLATION, a detailed explanation of how the home builder can install a standard or V-drive engine to power his boat. Universal Motor Co. (355)

GAS EXPLOSIONS, what to do before they happen. This is a helpful leaflet on installing gas sniffers. Johnson-Williams, Inc. (343)

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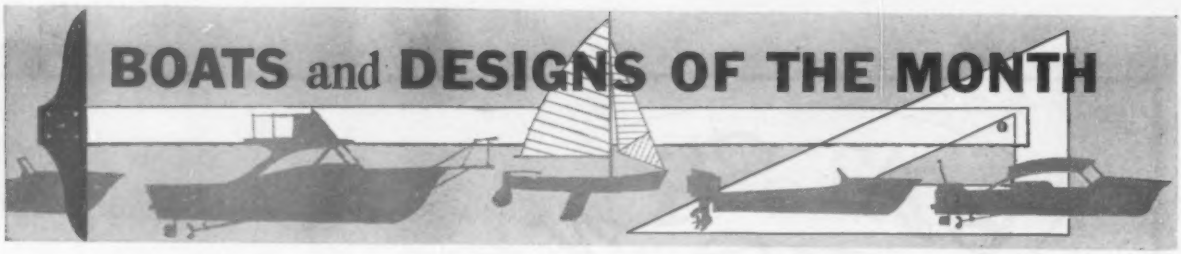
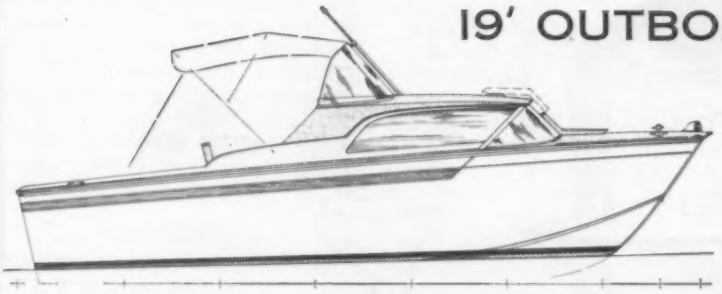
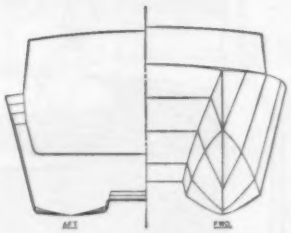
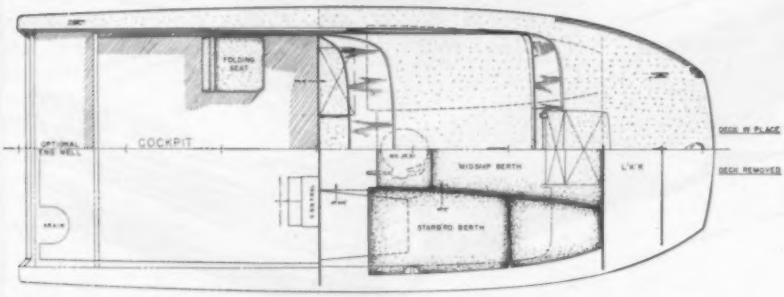


19′ OUTBOARD CATAMARAN



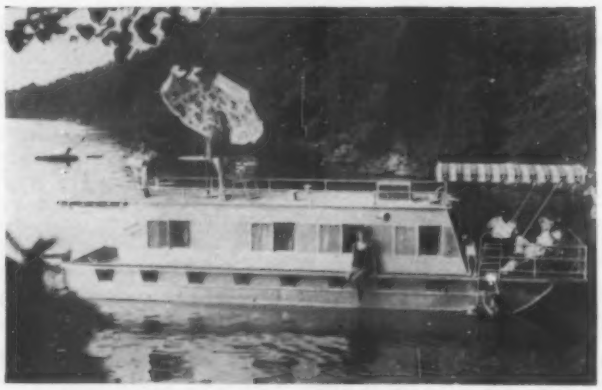


L. O. A. 18 ft. 11 in. Beam 7 ft. 11 in. Hull depth fwd. 4 ft.



WHEN WE PRINTED Bill Nielsen's design for the 16′ catamaran, Crazy Cat, in the September issue, he received so many requests for a larger model, that he sat down and created this 19 foot cruiser. She is intended for twin long-shaft motors from 25 to 80 hp to fit in a self-bailing well, and should go at very fast speeds. She is designed for conventional framing with plywood planking, and is suited to amateur building. Plans are available from Mr. Nielsen at a scale 1″ to 1′ for $12.50 per set. Designer's address is Box 1081, S. Miami, Fla.

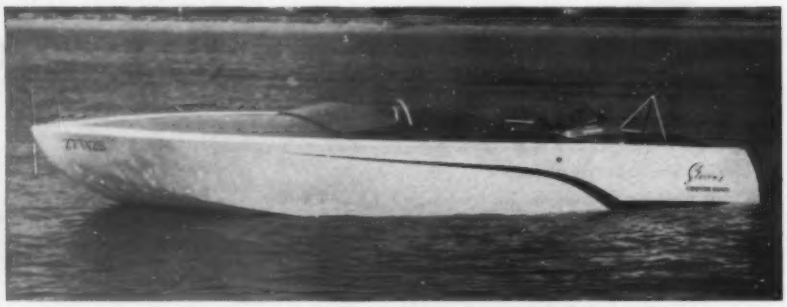
35′ ALUMINUM FLOATING HOME



AN ALL ALUMINUM houseboat 35 feet overall, with sleeping accommodations for 8 persons, is this Holiday, left, built by Richland Mfg. Co., Richland, Missouri. The cabin is finished in modern decor, rockwool and styrofoam provide flotation and insulation. The manufacturers claim speeds to 10 mph with a single 18 hp outboard, and double that with twins. A generator supplies 110 and 12 volt current. Bottled butane stored outside the hull feeds to the galley stove. Dimensions are 35′ overall, 8′ beam, 7″ draft. Eastern demonstrations are available from P. Carbone, 184 Bleecker St., New York 12, N. Y. Price is $6,800.

FAST DRAG RACER BY STEVENS

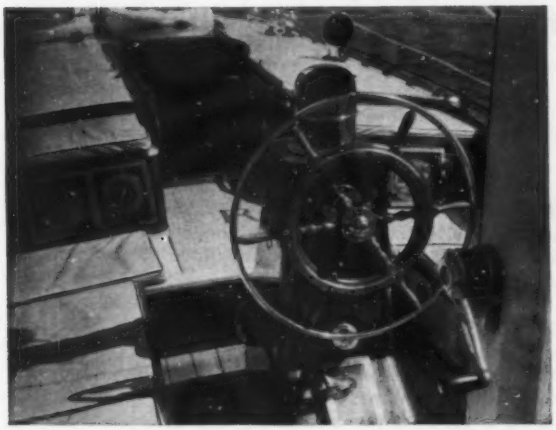
THOSE who like speed on the water will be interested in this 18′ "Sonic," by Stevens Custom Boats, 1305 W. 135th St., Gardena, Calif. The Sonic has achieved speeds to 80 mph with standard gas and carburetion; with blower intake system, it is claimed to reach 100 mph. The vee-drive drag boat can be powered with any desired engine. It is available as a frame kit for $260, bare hull for $1,175, or with hull glassed and painted for $1,395.



A FAST NEW CATAMARAN, a roomy houseboat, a speedy drag racer, and the attractive auxiliary *Romany*, are featured in the Design Section this month. In addition POPULAR BOATING's Directory contains over fifty pages of listings, with names, addresses of manufacturers, and prices. Here are photographs and specifications for all types of craft, inboard, outboard, power and sail, to offer our readers the most complete shopper's guide ever compiled for boating.—J.L.D.

46′ FLUSH-DECK KETCH BY WIRTH MONROE

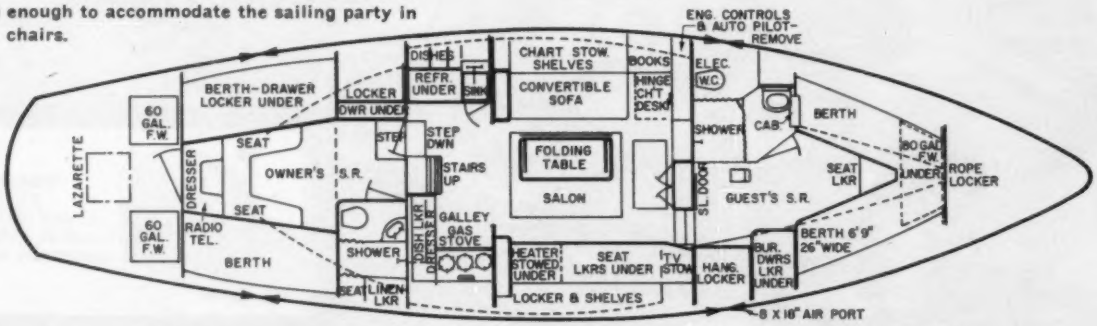
Photos by Wm. Russ



Romany's cockpit is planned for convenience. Engine meters and Kenyon log are on the port side forward. White compass is mounted on the wheelbox, a folding helmsman's seat is hinged from the mizzen mast.

Her clipper-bowed mahogany hull is a frequent sight on L. I. Sound. Innovations include remote controls handy to the chart table and RDF, permitting the navigator to steer a set course, sight through the peep pelorus, or take a radio bearing for an accurate fix without going topside.

The ketch cruises at 8 knots under power, and carries 400 gals. of fuel oil, with a consumption of about 2 gals. per hr. Sleeping accommodations berth seven persons in three cabins. After deck is large enough to accommodate the sailing party in deck chairs.



L. O. A. 46 ft. L. W. L. 39 ft. 8 in. Beam 12 ft. Draft 5 ft. 6 in. S. A. 1245 sq. ft.

A LOVELY KETCH, which is often seen on East Coast waters, is *Romany*, a 46 footer which was designed by Wirth Monroe, of Miami for Mr. Charles Bowman, of New York. She flies the burgee of the Larchmont Yacht Club, and was built by Miami Shipbuilding Co., of mahogany strip planking covered with 5 layers of fiberglass. Power is supplied by a Cummins 6 cylinder 110 hp diesel, and her equipment is extensive. Morse controls, Paul Ware autopilot, and Merriman hardware and roller reefing form part of her inventory, as does an Onan 3 kw generator, Hudson American Radio Telephone, RCA direction finder, and Sonar depth sounder. Ideal electric winches, Groco head, Constavolt charger, Crowell pressure water system, and Lawrence Stahl electric refrigerator and water heaters complete her fittings. The owner, an ex-racing man, wanted a boat that handled well under sail and power, upon his retirement from ocean racing.

Vikings Always Come Through

"I learned about boating from that"

Here's what happens when a present-day Norseman and novice companion tackle such hazards as Chicago's Calumet River and Lake Michigan in a sailing scow without power

By Alfred Partridge

IKE WAS TRYING TO REPAIR a 24-foot lake scow on the shores of Lake Calumet. The boat was little more than a skeleton cast up on the sand, but my imagination covered the ribs with planking and hoisted a gallant sail up the weathered mast. Moved by the fraternity of the sea, I asked the fateful question: "Can I give you a hand, sailor?"

The Viking took my hand with such a firm grasp that I became half owner of his boat and partner in the expenditure of both labor and loot.

The Norwegian was a good craftsman. Not only was he skillful at steaming and bending ribs, patching cedar planks, and calking, but he could apply liniment to my lubberly muscles with a firmness and fortitude which left me screaming.

But anticipating the adventures we were going to share, I was happy in my partnership. Anyone who has read widely in the journals of explorers knows two things about Norwegians. One, they love the sea. Two, they stay alive! Whether you're dog sledding it on a polar expedition, or sailing a tin bath tub from Oslo to Marblehead, all you

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need is one Norwegian on the roster and you will make it.

It took us two months of incredible labor, but finally the last screw was tightened, the last seam calked. Gleaming in new paint, we had a boat to be proud of. She was built for speed and would bring salt to the eye of a sailor, but the only tears shed on the eventful day when we started across Lake Calumet were those of my father-in-law, who had lent me $50 for rigging. One look at how we handled her, and he was checking my life insurance to see if I was good for the loan.

Lake Calumet is a shallow waterway for ore boats some ten miles south of Chicago. It is connected to Lake Michigan by a winding river four miles long. Our plan was to cross the lake, sail up river to Lake Michigan, and skim down the coast six miles or so to our harbor at Jackson Park.

I had never actually sailed before, and in spite of my long experience navigating TV channels I was not prepared for the speed of rushing water some three feet under my stern. I suggested we take a few turns around the nice shallow lake before we challenged the river and Lake Michigan, but the Viking was at the helm. He bit down on his pipe and held the tiller to course.

"We'll do it by dead reckoning," he said.

It was an unpleasant phrase—the meaning had escaped me before.

Ore boats ply this river so we knew it was navigable. What we didn't know was that seven bridges span it between Lake Calumet and Lake Michigan.

As we rounded the first bend, the first bridge formed a bar of steel well below the top of our thirty foot mast.

"Back this blasted thing up!" I yelled in panic.

"They've got to open it. It's the law," said Ike, holding to course.

The bridge tender was a lawbreaker; he sat tight.

"Put about, Tack, belay there, scuttle her, SOS!" I shouted every term I knew.

But Norwegians are stubborn, and they know the law.

When we were barely ten feet from the bridge, Ike drove us into the bank. That stopped us—the hard way. The jolt flung me into his lap. I clung around his neck like the albatross.

"Unstep the mast," said Ike, proud of his sailor talk.

It was a hard job. Lower the sail, unhitch the guy wires, and ease it down by the forward strut. But finally it was done. We started poling along the bank. As we came under the bridge the lawbreaker leaned out.

"Why didn't you blow your whistle?" he asked with a sneer.

Ike spit to windward, thereby muffing a dramatic retort.

We raised the mast, unfurled the sail and continued three hundred yards to the next bridge.

"Whistle," commanded Ike.

I tried. It came out "Whoo, whoo," like an asthmatic owl.

We rushed toward the bridge, but it stood without even a quiver.

"Hit the dirt again!" I shouted, pointing to the bank.

I braced myself against the centerboard housing.

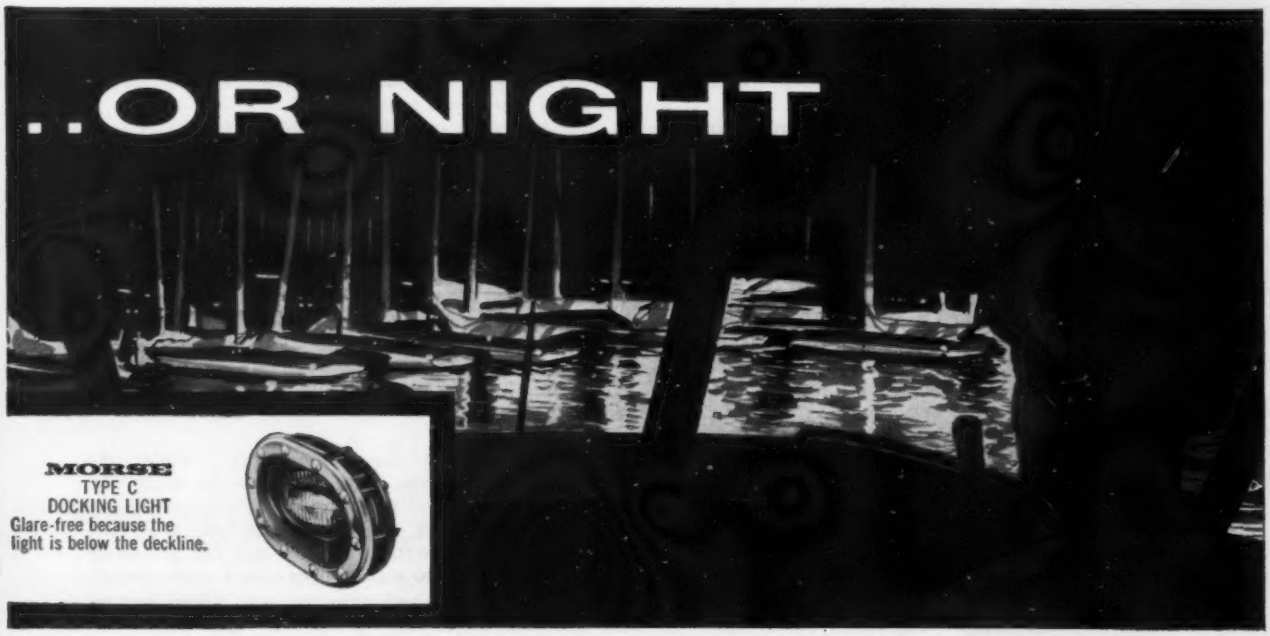
At the last moment Ike pushed hard on the tiller, but the wrong way! As the boom batted me into center river I heard him mutter, "Be ready to put about."

I dog-paddled it to shore and looked for the pride of the Vikings. He had tacked and was headed my way again. As he came parallel to me on the bank he shouted, "Freighter coming, hop on the next time around."

With that he careened away again, missing the bridge by inches as he zigzagged. I ran along the bank away from the bridge wanting as much space as possible before trying a running broad jump.

Sure enough, a freighter steamed around the bend and blasted her whistle at the bridge.

VIKINGS continued on page 112



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She blasted it again at Ike whose wild tacking back and forth in front of her bow looked like a reckless dog snapping at a moving van. Finally he got himself straightened out and came skimming towards me. I started a running leap and when he was even with me, I closed my eyes and leaped. Apparently Ike's lap has a peculiar fascination for me. Again I landed safely in Norway. He dug me in the ribs with his pipe.

"She's opening," he said.

He was right. The bridge was lifting to let the freighter through.

I felt like kissing the rusty iron sides of the hulk which now came abreast of us. We started through. It was a wonderful feeling.

Then our sails flapped and hung empty. The ship had cut off our wind and smoothly pulled ahead leaving us wallowing in her wake. The bridge started down.

"Hold it you . . . you . . . bridgetender," I screamed.

The bridge nearly scraped off our spar varnish but we squeaked through on a puff of wind.

Seven is a magic number. Seven veils, seven sons, seven moons and now the Seven Bridges of Calumet. Two were behind us, but I couldn't face another half hour like the last.

"Let me off," I begged. "I'm a landlubber, my folks were farmers. We won't even eat fish."

Ike looked at me in silence. I'd forgotten that not only did Norwegian explorers get through, but they brought the rest of the party along; it was a matter of pride. My only hope was to resort to guile.

"Look," I said, "I'll get off before we get to the bridge, I'll climb up and get the louse up there to open it for us. You can sail right through that way."

Ike screwed up his face which tells him he's thinking. He nodded. I'd got a reprieve. Although once on land I planned to stowaway in some quiet little bar and devote the rest of my life to toasting my good luck, the least I could do was try to raise one bridge in quiet salute to Leif Ericson and his gallant descendants.

As I scrambled up the bank, I refined my argument to the bridgetender. I'd tell him about our labor in fixing up the boat. I'll make little self-derogatory jokes about our idiocy and flatter the wisdom of his class. As a last resort I'll let him feel the egg on my head where the boom clobbered me and break him down with pity. I stepped through the door.

The bridgetender had obviously read Hemingway and was dressed for his role. He had a craggy, bewhiskered face. One sleeve of his faded blueshirt hung empty, wide red galluses held his rumpled black pants up over his bloated girth. His watery eyes watched me suspiciously.

"Hello Buster," he said, "you'd better hurry on down to that pretty boat while I raise the bridge."

My mouth hung open. "You'll raise it for us?" I asked.

"Sure," he said, "the boys up the way are looking for you, too. I gave 'em a call." I wanted to lick his hand, but he was busy at the controls.

I slithered hastily down the bank as the bridge was going up. The sun was bright, the sky blue, sea chanties rose unbidden to my lips. I saluted Ike.

"First Mate reporting aboard, Captain," I said and hopped into the boat.

I've never experienced such a lovely hour. Every bridge rose up as we approached and those sterling friends of man, the bridgetenders, waved as we slanted by with full sail and singing hearts.

The last bridge was passed and the open sea—well, at least Lake Michigan—lay clean and beautiful before us.

But it wasn't blue, it was white. The stiff wind roughed up the surface, and as I looked at it, my stomach lapped against my ribs. I should point out that our Skim-a-dish was built for speed and not rough sailing. I'm not built for either, but I knew our intrepid commander wouldn't turn back now.

Two big life boats full of Sea Scouts passed us coming into the river. They shouted something at us as they passed. "Be prepared," I suppose.

We were bouncing like a sparrow in a hurricane. Closing my eyes, I whispered over and over, "Norwegians always get through, Norwegians always get through." Then I felt a hand on my arm. It was Ike. His face was the color of Lute Fisk.

"Take over," he muttered, "I've got a headache."

I grabbed the tiller and watched my one hope being sick to his head over the side.

The wind was behind us and our boat was doing things I never heard of before. Its rear end rose high and its nose dug under each wave. I couldn't tell whether the boat or I was shuddering more, but I'm sure both of us thought each plunge was our last.

The up and down movement was bad enough, but as we rose the stern kept sliding off to the left and the waves tried to climb over the side. I tried to remember everything I'd heard about the softest way of hitting the waves. Was it head on, a quarter on, a quarter off? I was only sure of one thing. It wasn't sideways, but the boat must have read some other book because it was doing its best to lie down in each trough.

I'll never know just what went on for that next half hour. All I can remember is pulling the tiller back and forth like I was shaking down a grate. My feet were wet to the ankle. Was water bursting through the seams or just pouring over the side? An academic question at best. I looked around desperately for help; where was the Coast Guard?

To my surprise we were only about 100 yards off the stone terraces which run along the water's edge at Jackson Park. Bathers lolled on the rocks, some waved casually.

"Oh great, great!" I thought, "I can just casually drown out here for all you care."

Then I heard the sails flap. They'd been screaming like Frankenstein's bride and now they were flapping. Oh Allah, the wind had died! The boat still rocked, but had stopped blowing its nose in sea weed.

I looked forward and saw Ike slapping himself. A great peace entered my soul.

"There, there," I said, "don't mortify the flesh, old man, it could have happened to anyone."

Then I knew that Ike wasn't mortifying his flesh, the flies were. We were in the doldrums and clouds of flies with gnashing teeth had come for dinner. There was only one thing to do, and we did it. Both of us leaped overboard. Only in the water lay sanity. A lifeguard in a rowboat soon came out to us.

"You can't swim out here," he said. "It's too dangerous."

"Thanks," I said, "thanks awfully; we hoped you'd say that."

He rowed back.

Fortunately a breeze came along after a while. We climbed back aboard and continued down the shore line. Ike was at the tiller again, the wind steady and the soft hiss of the water against our sides was as sweet as a love song.

I breathed deeply of the fresh air and felt pleasantly drowsy. Jackson harbor was in sight, and I could already taste the coffee laced with rum my wife would prepare when she came down from the widow's walk.

"Let's take her on down to Grant Park," said Ike, "good day for sailing."

I filled a bailing can with cold sea water.

"Skol!" I said, hurling it at him.

We docked in Jackson Park and within an hour were sitting in dry clothes, a cheering cup in one hand and a ham on rye in the other.

"Well, how did you like it?" asked my wife.

"Can't wait to do it again," I lied.

"Tomorrow," said the Viking. — ⚓

PRESCRIPTION

for a non-conformist

. . . the startling new TRIUMPH. Only a new name in the marine field could bring you such a departure from old-fashioned stereotyped ideas of cruiser design . . . and Storecrafters – with an international reputation for quality interiors of stores and banks – brings a fresh new approach to what a boat can be. She's 28'-9" of magnificent design . . . and her performance is as outstanding as her appearance! She's terrific!

Virtually maintenance free, the TRIUMPH has her hull, cabin top and hardtop moulded of Fiberglass (with thicknesses to 7/8"); foredeck, walkaround and cockpit decks are of Teak; and exposed wood parts in the cabin have a Mahogany Formica surface. Standard equipment includes twin 200 hp engines, 115 volt power plant, electric refrigerator and range, automatic bilge pump, bilge blower, monel shafts, safety glass . . . and, did you notice, that disappearing windshield leading to the cantilevered aircraft-carrier-type foredeck!

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The Playmate 14′ runabout. Has lapline hull, sealed double bottom-flat floor. Foam seats. Rear seat reverses for water ski observation and trolling. Complete $745.*

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Larsons are tough. Each lap is like a small angle iron along the fibreglass hull. Also, Larson's sealed double bottom-flat floor adds strength, safety, and passenger comfort. Larson's big motor well will take the thrust of any size motor. Before you buy a boat, be sure to . . .

The All-American, a 16′ family runabout. Convertible top is standard equipment. Sealed-in double bottom softens vibration, forms a flat inner floor. Complete $1025.*

The new Sea Lion — This versatile, 17′ 8″ cruiser trims big water to size, and tows skiers with ease. Exclusive walk-thru deck hatch and sliding windshield let you step from bow to beach. Convertible top, bunks, mechanical steering. Complete $1795.*

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**All prices quoted retail, F.O.B. Little Falls, Minn. and Nashville, Ga. Prices are higher west of Rocky Mountains, Northeastern U.S. and Canada.*

*LOOK FOR THESE LARSON DEALERS IN YOUR AREA

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FLORIDA—PAUL'S BOAT SALES, Ft. Lauderdale; BUDDY'S HDWE. & SPTG. GOODS, Tallahassee; WILLIAMS BROS. MARINE, Tampa

GEORGIA—EV-MAR SALES, Albany; OUTBOARD MARINE, Augusta; WIGLEY'S MARINE, Marietta

ILLINOIS—KLUMP BOAT & MOTOR, Alton; CHICAGO MARINE, Chicago; SUNSET MARINE, Chicago; MOLINE BOAT & MOTOR, Moline; TED'S BOATARAMA, Rock Island; STARVED ROCK MARINA, Utica

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**PARTIAL LIST ONLY*

how to:

KNOW THE ROPES:

THE RUNNING BOWLINE

Learn this useful knot from these simple instructions.

IT IS surprising how an extra tuck, twist, turn or loop may change the usefulness of a knot. The Bowline Knot, for instance, is one of the most useful knots known. Slightly modified in style, it makes a useful loop which will jam on to anything when pulled taut, like a lasso. It is commonly used at sea to recover spars and rigging that have gone adrift.

The picture-series shows the conventional way of making the Running Bowline. There is, however, an alternative. You may prefer to tie a Bowline Knot in the end of the line in the usual way, push your fingers through the small loop so formed, grasp the line, pull it through, turning the Bowline Knot inside out as you do so. The result is the Running Bowline.

—GORDON S. SMITH

With bight in one hand, pass bitter-end beneath standing part of line.

Flip a loop into the bight, with thumb on overlapping part.

Pass the bitter-end up through the loop from beneath, as shown.

Continue end around standing part of bight, then return it through loop.

The Running Bowline is complete, forming an easy to tie lasso.

Another method is to pass standing part through loop of Bowline.

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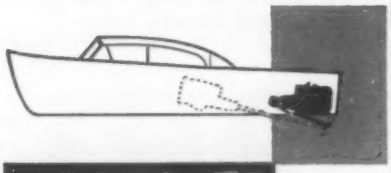
FOR BOATS 16 FT. OR OVER



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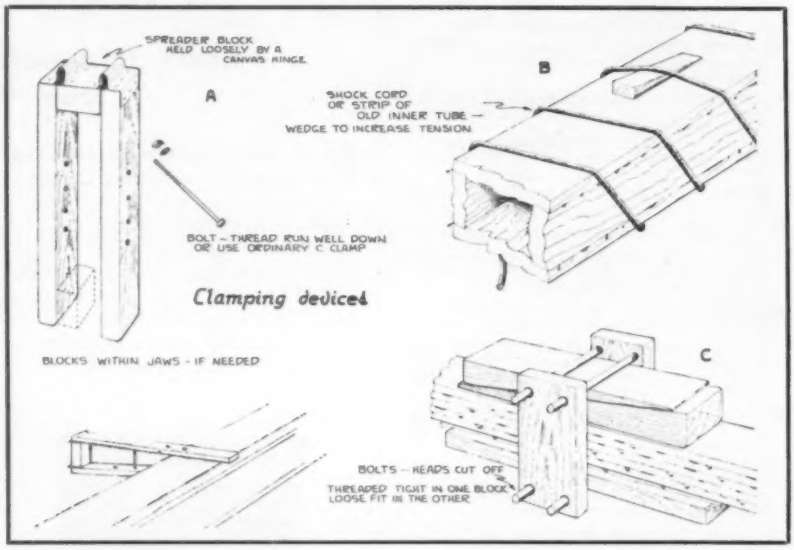
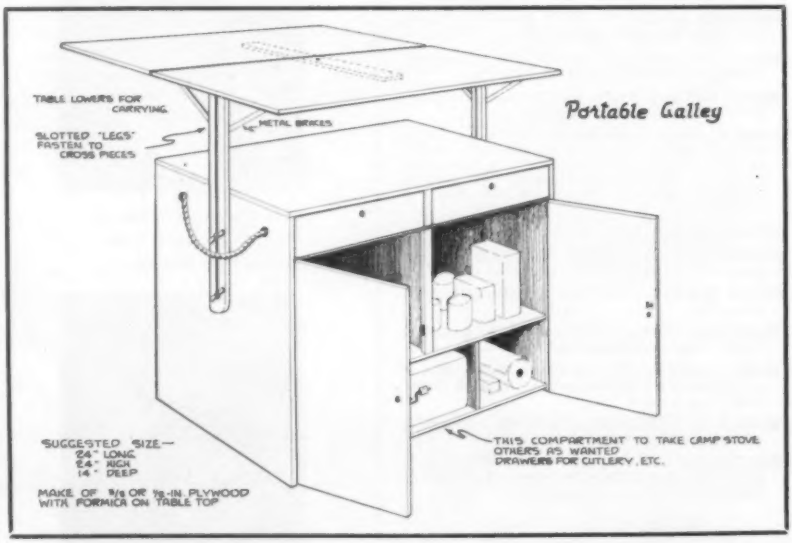


CLAMPING DEVICES

AS CARL PATRICK of Detroit mentions in commenting on the building of his 32 ft. yawl, no matter however many tools you own or can borrow, one often has to make do with some homemade devices. I find this particularly true concerning clamps, the deep-throated type, particularly. Few of us own them, as they're so seldom needed. Yet occasionally you need one or a couple of them in order to do



PORTABLE GALLEY

MRS. MARY WISNIEWSKI of Chattanooga, Tennessee, in explaining the portable galley worked out for her family's 16-ft. outboard cruiser, enthuses over the difference that the arrangement has made not only in doing her galley work but in stocking up the boat for weekend and vacation trips. Before, when a night

Readers are invited to submit ideas for this column. POPULAR BOATING will pay $5.00 for each item used. Send material to Jim Emmett, POPULAR BOATING, One Park Ave., New York 16, N. Y.

some job properly. Your only alternative then is to rig up some makeshift way of applying the pressure at a hard-to-reach point. "A," as described by Carl, doesn't take long to knock together and is quite satisfactory. "B" shows Carl's way of applying uniform pressure in gluing up his hollow mizzen. An old truck inner tube cut spirally to give long strips can be used instead of the shock cord. Naturally, I'd prefer clamps, or the arrangement of blocks and bolts as often used, for gluing up a stick of any size, but this shock cord or rubber band way does provide uniform pressure which can be increased by forcing wedges beneath the turns. "C" is an improved version of the block and bolts method mentioned. As Carl says, with laminations or glue being depended on more and more, it pays to have your number of these "clamps" and to make them rather carefully since there are so many times that they'll come in handy. I do think that a stout strip should be used, with waxed paper, beneath the glued-up member and that the wedges should be long and on the heavy side, both measures making for better distribution of the pressure.

was to be spent aboard, they had to haul a stove, ice box, card table, lunch box, and a box of pots and dishes to the boat, and even then some needed item was often forgotten. Now, everything is sure to be aboard, carried in the compact box which measures 24 inches wide, 24 inches high and 14 inches deep.

Naturally, the inside compartments should be arranged to suit one's gear. Here the lower left-hand space takes the camp stove, the others sort out the various requirements with the drawers for cutlery and odd items being particularly handy. The table with its folding leaf is lowered onto the box for stowing and can be adjusted to a height convenient for working or eating. Actually, their ice chest sits on the box, beneath the table, much of the time that the latter is in use. With the box out of use and the table lowered, a cushion can be used to have it as an extra seat. The Wisniewskis even occasionally take the box off the boat to use it on car camping trips.

EMMETT continued on next page

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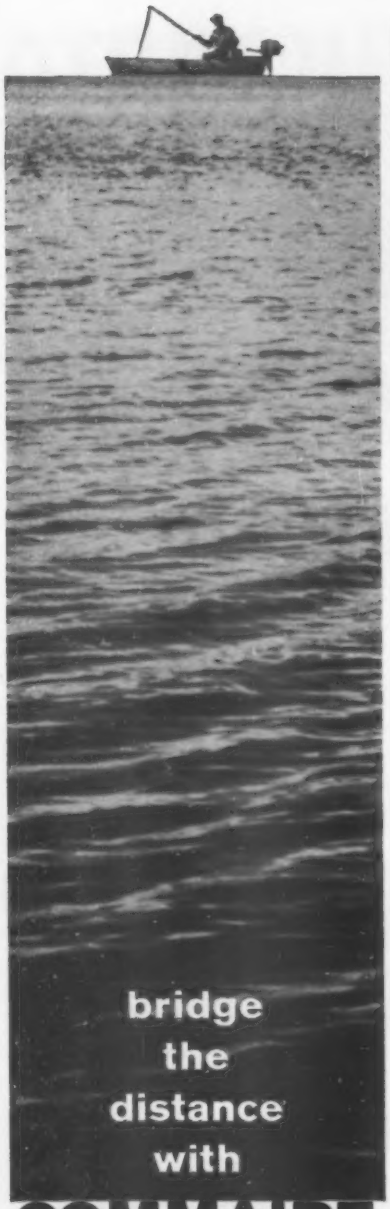

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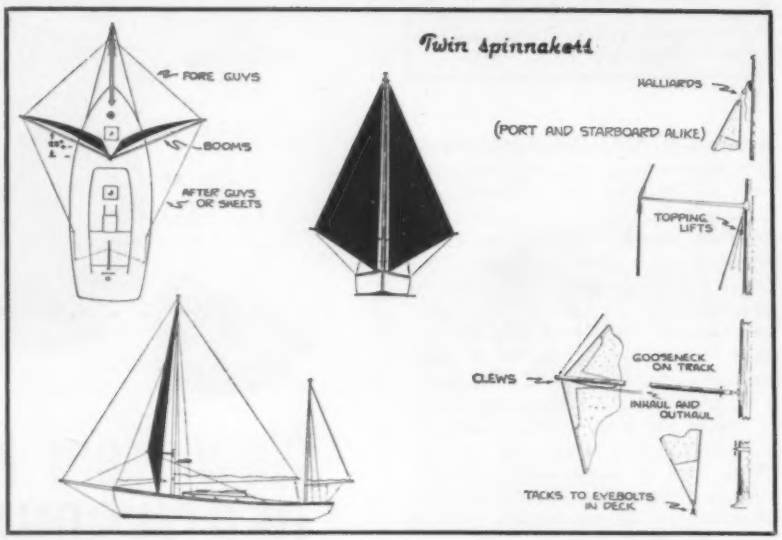
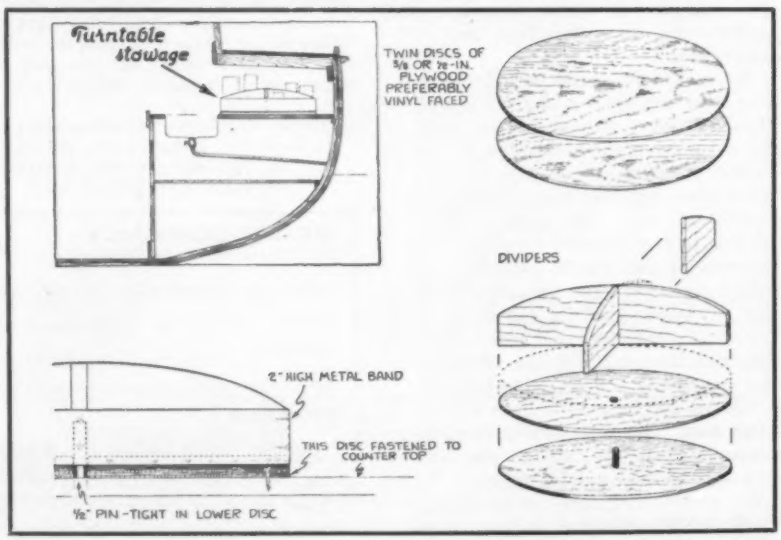


TWIN SPINNAKERS

THERE ARE, of course, different ways of rigging twin spinnakers. But, as Kipling said about his women, all of them are good. Steering even the handiest of boats before a wind of any strength throughout a long watch can be exhausting work. Use twin spinnakers, though, and even a pretty dumb boat will behave like a lady. They are, to my mind, a definite improvement over a squaresail, your other choice for where long open water passages will be made and winds should be mostly fair ones. I've found that once you have your twin spinnaker arrangement worked out properly, the boat can be made to steer herself with the wind dead aft or a point or so on either quarter. Important too, each sail is relatively small and easy to handle. And you have two light spars to handle against the squaresail's long and unwieldly one. Also the gear throughout can be comparatively simple as compared to that of a properly rigged squaresail.

The arrangement shown is typical. The two triangular sails are hoisted to the masthead by their halliards. Their tacks are set up to eyebolts in the deck on either side of the mast. The clews of the sails should be cut rather low. These are boomed out by the spars, whose heels are attached to the mast, likely with a gooseneck and slide-on-a track arrangement. The spars are topped by their lifts. And to control them there are the two sets of guys. One set is led forward where the two lines are rove through blocks out the bowsprit then back on deck. The after pair are used as sheets. Often they're led through quarter blocks then to the tiller to which they are belayed.

Concerning the details of the rig:



To my mind, the total area of the two sails should be about that of your mainsail. Or you can, of course, have your two sets, a pair of balloon spinnakers and another smaller working set. Ordinarily, though, the spinnakers should be made of reasonably heavy stuff and with all edges wired or roped since they're by no means mere light weather sails. I've tried wire stays to the deck, hanking the luffs of the sails to them, but they're something else to be in the way. Possibly the perfect way would be to have jib furling gear on both sails for then the sails could be furled, or their areas reduced, very easily. However, rigged as shown, getting the sails in is relatively simple, the clews being eased off as the sail is gathered in and either lowered or furled on itself. Hoisting is simplified by having the sails made up with yarn stops.

Naturally, each boat presents its particular problems, making it usually necessary to experiment with your rig to get it working just right. I've found that the sails behave best if their tacks are led to points on deck ahead of and well out from the mast to leave some space between the two. If they're kept too close together the boat will, for some reason, tend to broach occasionally instead of running true. While I've shown the after guys or sheets led well aft you may have to lead yours to points further forward to give more down pull against the booms' tendency to lift. Generally, trimming the booms well forward works best, at an angle of up to 25 degrees from the beam or a straight line across the boat. Notice that I've shown the halliard blocks held well clear of the mast by shoulder cleats or pads. If the blocks are too close to the mast, the heads of the sails will chafe.

TURNTABLE STOWAGE

REMEMBER THE OLD-TIME Lazy Susans? You turned the shallow tray, pivoting on its pedestal, to put the salt or condiment wanted within easy reach. It saved a lot of passing and reaching across the dining-room table. This variation of that idea works out well aboard a shallow draft sailboat or other low-sided craft with quite wide side decks. Then, your problem in working out the cabin arrangement is to utilize those shallow spaces beneath the deck to best advantage. On the centerboard cutter, where I came across this idea, the shallowness, and depth, of the space back of the galley counter would have made most of the items stowed in an ordinary locker difficult to get to. As it is, a turn of the "table" puts whatever is wanted right in front of you.

Here's why you're safer* in new St. Croix fiberglass boats

You're looking at today's most amazing advance in fiberglass boats. This boat has a fire-resistant hull!

It represents the first full line of fiberglass boats ever built with Hetron® —the safer boat resin. These boats are made by St. Croix Marine Corporation.

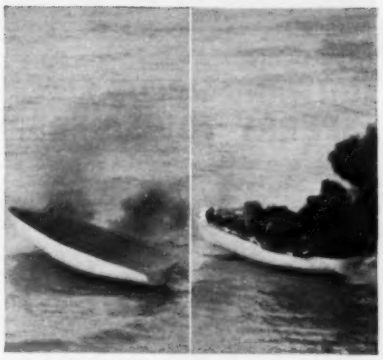
Does fiberglass plastic burn?

Glass itself does not burn, of course. But a fiberglass hull is largely resin! Many fiberglass boat hulls contain resins that can and do burn. In realistic tests, hulls made with such resins *ignite quickly—and burn to the water line in as little as six minutes!*

This can't happen with the new St. Croix boat. Its rugged fiberglass hull is molded with Hetron, a Durez fire-retardant polyester resin so strong and safe it's approved for lifeboats, large radomes, and military aircraft. This resin won't support flame. Fire resistance is permanently, chemically locked in.

You can get details on these safer boats by writing directly to St. Croix Marine Corp., Park Falls, Wisc., or by seeing your St. Croix dealer. We make the Hetron resins only.

*Hull material resists fire as required by Regulation MIL-R-21607 (ships), developed by Bureau of Ships and now followed by U. S. Coast Guard and the Maritime Commission.



SEE THE DIFFERENCE! Regular fiberglass hull at right swiftly catches fire from gasoline-soaked rags—blazes to destruction in six minutes. Identical rags smolder in Hetron-and-glass test hull on left—but start no fire and cause no structural damage.

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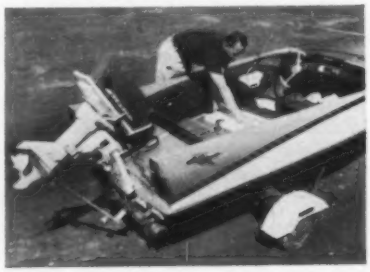
TRAILER TIPS

HERE'S ADVICE ON LOADING BOAT AND EQUIPMENT

MORE AND MORE BOATMEN now trailer their craft with outboard attached. Properly loaded this is safe to do. Here are suggestions from the Scott Outboard Engine division of McCulloch Corp.

With a trailer of the right size and properly loaded, it is so easy to tow a boat that you can almost forget it is behind the car. However, the added length and weight make it necessary to allow more time for stopping or accelerating and more space when turning or passing another car.



Any duffle bags or other equipment carried in the boat should be carefully stowed so it cannot shift or rattle. Distribute gear in boat so that weight will be slightly forward and will not disturb the balance of the load on the axle.

Carrying the motor in a tilted position increases road clearance but it also adds to the strain on the boat's transom. A motor support, like the one pictured, holds the motor rigidly in position and supports the weight of the lower unit on the trailer frame. Note also the spring-loaded adjustable transom tie-down chains that hold the boat firmly in place.

INDIANA BOATMEN WIN BATTLE FOR LOWER TRAILER TOLLS

TRAILER BOATMEN being financially pinched by what they considered to be excessive charges on the Indiana Toll Road have emerged victorious from a campaign to bring the charges down. The result was a toll reduction from $4.70 to $2.80 for a car or light pickup truck with a two-wheel boat trailer traveling the full toll road route, and a drop from $7.45 to $5.60 for a car with a four-wheel trailer covering the same route.

The first step in the campaign was taken when a notice of protest against toll rates appeared in a recent issue of a trade magazine. The Plamer Lake Boat Club of Colon, Mich., got busy in making resentment against the charges known among responsible public administrators.

James H. Totten, fleet captain of the club, arranged to have copies of the notice posted at public places likely to be frequented by boating enthusiasts. He also sent copies to Governor Harold W. Handley and Charles W. Cook, executive director of the Indiana Toll Road Commission. Quick action followed by the Governor and other officials and as a result the commision was able to state to Totten within a matter of weeks: "As of September 30, 1959, all trailers pulled by passenger cars or light commercial vehicles of not more than four tires, and excepting mobile homes and boats over 21 feet, will be charged a fare of $2.80 for the entire trip across the Indiana East-West Toll Road, if such trailer is a one-axle trailer, and $5.60 for the entire trip if it is a two-axle trailer."

A special summary of state laws affecting boat trailering, based on a compilation by the Outboard Boating Club of America, appeared in POPULAR BOATING, September 1959.

— ⚓ —

POPULAR BOATING

"Well—why do you suppose the Navy rejected them?"

"LIQUID PLASTIC" MARINE FINISH

Six thousand years ago, ancient Egyptians saturated mummies with water repellent resins before entombing them in the pyramids. This treatment enabled the mummies to withstand the ravages of moisture and weathering. Today, modern 20th CENTURY plastic technology has changed the pattern of protective resins by offering the individual boat owner SAV-COTE . . . symbolizing the most watertight, weatherproof and brilliant plastic coating yet produced. Like Egyptian mummies, SAV-COTE lasts & lasts, actually defies aging. Doesn't crack, peel or chip in 250 degree heat or Arctic cold.

A Superior WATERTIGHT Coating

APPLIED LIKE PAINT it *scientifically* forms a watertight, weatherproof and elastic skin. So tough that a wallop will dent rather than shatter it. So superior in color quality that it actually makes old boats recapture their original showroom sparkle. Yes, **SAV-COTE** is superior in every sense . . . giving boats the ultimate in protection against severe weathering, moisture, pounding seas and the corrosive effects of salt water. In addition, a special colorless ultraviolet light filter is built into **SAV-COTE** to provide extreme sunlight resistance. You'll recognize its distinctive, superior qualities from the moment you open the can to the last gleaming brush-full.

BOATS REFINISHED TWO & THREE YEARS ago are still reported in *excellent* condition, because of the unexcelled durability of this plastic coating. With a service life expectancy up to four times longer than conventional marine paints, enamels and varnishes, **SAV-COTE** seals into a lasting, brilliant, mirror like gloss . . making your boat *really* watertight. And it's so easy to apply. Brush, roll or spray it over old paint or on bare surfaces. Tightly adheres to all exterior & interior wood, metal, fibreglass and canvas. Dries so fast and smooth allowing you to apply as many coats as desired in **ONE DAY.** And cleaning is simple, because **SAV-COTE** repells grease, oil, dirt and grime.

YOU'LL SAVE time, money and labor and have the best looking boat you ever had, seen or heard about if you use **SAV-COTE** this season. Used by U.S. Navy, Coast Guard, famous boat builders and specified consistently by boat owners across the U.S.A. and around the world. Recently applied to the *largest* passenger 3 masted schooner under the American flag.

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Free literature and color chart sent upon request!!

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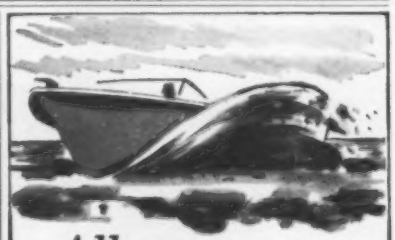

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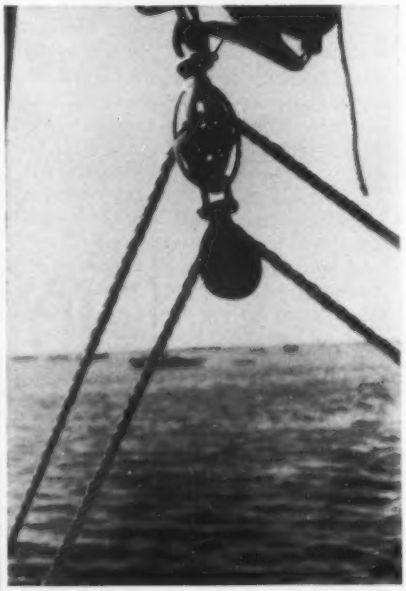
CULPEPER, VIRGINIA

how to:

An Inexpensive Non-Chafing Double Block

IT IS OFTEN very difficult to avoid chafing of lines running through a side-by-side double block. This is particularly true where the angle of lead keeps changing, as when the main sheet is rigged through quarter blocks and a double block. On top of that, good double blocks are astonishingly costly.

When I needed a double block for my main sheet I worked out this rig, which works perfectly, from two old blocks which were on hand. It so happens that the sheave in the upper



block has sufficient clearance to clear the shackle of the lower block. If you can't find any blocks with this feature there are alternatives: You can use an upper block with a becket (that's a metal loop) on the bottom; you can suspend the lower block directly under the upper one by a double wire or strap leading past the upper block to the topmost shackle or fastening. This wire should be lashed to the upper block with marlin so as to keep the lower block in line under the upper one.—JOHN WOLBARST

how to:

Repair Stripped or Damaged Threads With Stainless Steel Reliners

TO achieve the portability of high horsepower outboard engines, manufacturers are using more aluminum and magnesium in fittings and engine components. A troublesome detail to the boat owners on these lightweight parts has been the frequent problem of repairing threads that are worn, damaged or stripped.

Bert Clear, owner of the progressive Lake Marine Base at Candlewood Lake, Conn., frequently faced this troublesome maintenance problem in his service work. In his marine facilities he repairs and reconditions all types of outboard and inboard engines —from a complete overhaul to changing a spark plug.

Some of the engines brought to Clear's for repair and service have damaged spark plug threads. Stripped threads on armature plates, gear cases, exhaust tubes and locks also rank high on the repair list. On some parts, where replacement was costly or time-consuming, these threads would require extensive treatment in the machine shop. The hole would have to be filled with weld, then drilled and tapped. In extreme cases an engine block or cylinder head would have to be returned to the factory for replacement or repair.

For the past five years however, the Lake Marine repair shop has been using precision-formed stainless steel wire thread reliners for tapped holes, made by the Heli-Coil Corporation, 10 Shelter Rock Lane, Danbury, Conn. These inserts make it possible for a mechanic to make a permanent repair that resists future wear, stripping, corrosion, seizing or galling.

One of the most troublesome spots found by Clear's mechanics for thread damage has been the small metal tabs that are used to locate engine cowlings around the motor. These cowlings are taken off and put back on frequently by the boat owner, and the screws are usually put in or taken out in a hurry. As a matter of preventive maintenance these threads are usually replaced with Heli-Coil inserts when an engine is first brought in for service.

Repair follows this pattern: (a) the damaged thread is cleaned out with a drill larger in diameter than the major diameter of the original thread, (b) the hole is retapped with a special oversize tap, and (c) a Heli-Coil thread insert is installed in the hole. The insert is screwed into the hole a quarter to half a turn below the surface of the metal. Since in its free state, the insert has an inside diameter larger than the diameter of the tapped hole, the action of the inserting tool during installation compresses the insert to slightly less than the inside diameter of the hole. On removal of the inserting tool, the insert expands and permanently locks itself in place.

For a through hole, like that found in the cowling clip, the notch tang at the end of the insert is removed with a pair of pliers. Blind holes do not require the tang removal. The strength of the 18-8 steel wire makes the thread strength stronger than the original threads, making it practically impossible to cross thread a bolt or nut.

—⚓—

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BOOKS FOR BOATMEN

Boating books may be ordered through your local bookstore.

Tales and Techniques of Boating, by John R. Whiting. Ziff-Davis Publishing Company, 350 pages, illustrated. Price, $4.95.

POPULAR BOATING'S "I Learned about Boating from That" feature series has long been a favorite with readers. Indeed, most of the stories carried under this heading have come from readers. Here is a collection of 29 of the best "I Learned" articles of the past three years. The boats range from outboard runabouts to ocean-going schooners, and the authors range from youngsters reporting on their first cruise to such well-known veterans as Ann Davison, H. A. Calahan and Carleton Mitchell. Some stories deal with a simple but ludicrous situation, such as Joe Richard's "Burton and the Boom," others with the terrifying predicaments when life itself is in danger, such as "Overboard Offshore," by Donald C. Stone.

These tales all have something in common: they show what happened when "something went wrong," and they make up the first half of this book. The second half is devoted to explaining the skills that are important to all boatmen, the skills that will prevent "something from going wrong."

In this section of the book, Whiting covers such topics as "Techniques of Cruising, Piloting, Weather, Wind and Waves; Seamanship; and How to Have an Emergency." The chapter on cruising includes planning, cruising routines, boating etiquette, and such interesting sidelights as photography and music on shipboard.

Use of U.S. Coast Pilot books, tide and current tables and charts, plus where to obtain these, are discussed in the chapter on Piloting, as well as compass correction, use of piloting tools, and a time-distance scale.

The chapter on weather includes the use of such items as a portable radio, barometer, thermometer, weather maps, cloud charts, and "Weathercasters" in making simple, accurate forecasts, plus a discussion of basic weather rules. A report on conditions that produce fog, by Nicholas Rosa, is also presented.

Under the heading of Seamanship, Whiting covers knots, anchoring and mooring techniques, safety and courtesy afloat.

What to do when the engine fails, fire and explosion prevention, refuelling techniques, what to do in case of a bad leak or a rigging failure, and safety precautions for persons swimming from boats are all covered in the chapter on emergencies. A basic handbook of first aid for illnesses and minor injuries is also included.

Sailing Boats, by Uffa Fox. George Newnes Limited, Tower House, Southampton St., London, W.C. 2, England. 204 pages.

Uffa Fox, one of England's great designers and probably the best known figure in the international boating scene, has brought forth this concise, informative book on how to handle sailing boats, containing the hard constructional facts of each design, with a personal anecdote relating to the formation and operation of the individual class. The first half of the book is concerned with lightweight drop keel boats in use on inland and coastal waters. It is slanted toward the young and lusty boat lover. Part two covers ballast keel vessels that can look after themselves and ride out a blow with the aid of reduced sail, or even down to bare poles for really rough weather.

Line and sail plans for each class are included, with 24 pages of photographs showing sailboats in action. A chapter devoted to the history of the America's Cup Series gives the reader an insight into the opinions of the noted English designer.

The magnetic personality of Uffa Fox, twice selected as Boatman of the Month by POPULAR BOATING, is revealed in this exciting book.

CCA MEASUREMENT RULES

The Cruising Club of America's "Measurement Rule for Ocean Racing —1960" is available for $1.00 from Robert L. Hall, Box 274, Huntington, L. I., N. Y. A special report on recent revisions to these rules will appear in a forthcoming issue of POPULAR BOATING.

YACHTSMAN'S GUIDE TO THE BAHAMAS

Newly revised is this guide for cruising the Bahamas. The data it contains is much like the information found in Coast Pilots. The Customs and Immigration information will be found especially valuable. Copies may be obtained at $1.00 each from the Nassau Development Board, 1633 duPont Building, Miami, Florida.

CRUISE TIPS FOR SKIPPERS

A reprint of 26 cruises along the East Coast from New England to Florida, Lakes Ontario and Erie, N. Y. Waterways, and Gulf Coast to New Orleans. Written by C. L. Lovejoy of the New York Times. Excellent information on where to go, what chart to use (25¢). Write The New York Times, 229 West 43rd St., New York 36, N. Y.

NEW AND NAUTICAL

A NEW FIRM, the U. S. Yacht Paint Company, Roseland, N. J., has been organized to produce epoxy and alkyd coatings especially designed for marine use, it was announced by John A. Pettit, president. New coatings made by the company have been designed for use on plastic and metal as well as wooden pleasure craft.

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IDENTIFICATION PLATES to properly identify the most commonly used inboard and outboard electrical circuits is announced by Cole-Hersee Co. of Boston, Mass. Each package contains 12 non-metallic name plates that will not fade, crack, chip, abrade or wrinkle.

—⚓—

COOKING becomes easier and safer aboard with the new $.49 Fireliter manufactured by American Thermos Products Co. Each package contains a dozen Thermos Fireliter disks, an asbestos wick cup and a metal bridge.

—⚓—

THE ELECTROPILOT allows the pilot of an outboard to steer his craft from any point on board. A simple electric steering device consisting of a 2-way switch and motor control unit allowing remote control of the boat's direction is being marketed by Huppower Div., Hupp Corp., 7450 Melville Ave., Detroit 17. Electropilot in kit form is priced at $69.50, plus hand control, which is offered in various models.

—⚓—

A NEW FIBER GLASS BOAT TOP permits easy entry or exit from your boat by tilting to a near vertical position. Three sizes are being offered by Seabreez Marine Products Div. of Hill Engineering Co., 516 N. Sterling, Suger Creek, Mo.

—⚓—

SPEED WAND is a portable speedometer that will measure speeds from 5 to 35 mph. No installations are necessary on the Speed Wand, priced at $3.95. Available from dealers and Air & Marine Sales Co., Box 8031, Dallas, Tex.

—⚓—

A NEW HEAD GASKET for outboard motors is guaranteed against blowing out. Made of copper, the gasket is said to improve engine performance and permit longer engine life. Product is available by mail order from Daco Products, Inc., 7 North Ave., Wakefield, Mass. One cylinder engines $5.95; 2, $9.95; 3 or more, $18.95.

—⚓—

Popular Boating—outstanding sports publication of the year

We are pleased to announce that POPULAR BOATING has received a 1959 Maggie Award for its special America's Cup issue of September, 1958.

A 'Maggie' is the Magazine Publishing Industry's award of excellence. As such, it is the highest accolade a publication can receive.

We are especially proud that, through POPULAR BOATING, the greatest of all sports is thus honored.

The Editors

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COMPLETE SOCK KIT

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Mail ad with name and address for details of SOCK's revolutionary new boat building method (world patents pending) for dinghies and outboard runabout.

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Inboard & outboard runabouts, cabin cruisers, dragsters & a new RUFF-KUT-KIT (a precut kit which includes everything to build a 13' runabout for only $199.99) . . . all are shown in this big new "GLEN L CATALOG".

All Boats Designed By A Naval Architect With Plans, Patterns & Frame Kits Specially Prepared for Amateur Builders.

Another added feature illustrated is this fast, sturdy 14' power catamaran, the Jet Cat. Available as Plan Set with full size patterns & step-by-step photos: $20. Frame Kit with complete Plan Set: $120.

SEND FOR YOUR CATALOG TODAY—ONLY 50c

GLEN L 9152 R Rosecrans Bellflower, Calif.

WATER SKI NEWS

A NATIONAL ORGANIZATION FOR WATER SKIERS

TO THOSE entering one of the fastest growing sports in America—Water Skiing, the American Water Ski Association may be completely unknown to them. The AWSA, a group with 4000 skier-members affiliated with the Outboard Boating Club of America, conducts water ski competition in the United States. With offices at Box 1380, Winter Haven, Fla., and active representation throughout the country in the form of regional offices and associated clubs, AWSA has led the way in furthering and organizing the sport.

Through this group and its publication, THE WATER SKIER, skiers receive news of the water ski world. Local clubs are given assistance in building their membership and in running tournaments. And towards the end of each summer AWSA conducts the National Water Ski Championships. Sanctioning of a tournament by the AWSA assures the competitors that the event will be run under the national rules and any records set will be recognized by the parent body. Sanction is granted each year to the Nationals, the Regionals and certain other tournaments sponsored by member clubs. Clubs obtaining sanction for their tourneys receive commensurate advantages. They draw on judges approved by AWSA and enjoy the advantages of AWSA publicity. They receive applications from skilled skiers, all of whom carry AWSA cards rating their ability as qualified instructors, expert or first-class skiers.

HINTS ON SKIING FROM AN EXPERT

"Anyone from eight to 80 can learn to water ski, if they are sound of limb and in good health. Given the proper equipment and teacher, they should be ready to ski on their own in a half an hour.

"They should begin by choosing a beamy, uncluttered boat for water skiing. Today's outboard motors supply plenty of power.

"A few minutes of dry land practice are advisable. Don the skis, then sit down on them close to your heels. Have a friend pull you up to a standing position. If he is a skier, he will tell you that you should keep your elbows straight and allow yourself to be pulled by the boat. *Don't pull yourself up.*

"After a few 'dry runs,' you're ready for the water. Wear a life jacket if you

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Advanced Design—Remarkable Performance

TRAILER KITS

TO FIT YOUR BOAT

Capacities to 2,000 pounds — Lengths to 21 feet Single or Tandem Axle

Get the best for your boat and save more than one-third by building one of these guaranteed highest quality, fully engineered rugged trailers in one evening. You get all parts for easy assembly to a few pieces of locally purchased pipe. Cuts freight costs.

Prices range from $59.50. Easy terms.

Write today for free illustrated catalogue showing all sizes, models and prices.

TRAILER PRODUCTS CO., INC.
DEPT. PB-2 P. O. BOX 176 KINGSPORT, TENN.

NEW Taft "CAT KIT"

14 FT. CATAMARAN BOAT KIT

EASY TERMS

18 ft. roominess, seaworthiness, at Taft's low, low mass production price. Other models from $42.

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Mail your club insignia for FREE SAMPLE T-SHIRT. For complete price list write today. Dept. B-1. Satisfaction guaranteed.

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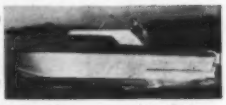
New WESBAR STURDIRACK

Car-Top UTILITY CARRIER — Heavy Duty, for boats, canoes, surfboards, pipe, lumber, etc. Easy to attach. No permanent fastenings. At leading dealers.

WESBAR STAMPING CORP. Dept. PB 260 West Bend, Wis.

20' CABIN CRUISER

$995 • Not a kit, but completely built ready to paint!!



Broadwater Boat Co. Rt. 214 Edgewater, Md.

aren't an expert swimmer. Should you fall, throw away the tow bar. Never wrap the line around your fingers or arm.

"With the skis on, sit down in shallow water with the skis on an angle and the tips out of the water in front of you. When the line is taut, yell 'Hit it!' and the boat operator will accelerate to pull you up. Remember, let the motor do the work. Don't pull yourself up. Just concentrate on keeping your arms extended and your skis straight.

"Once up, you'll find the going easy. Just keep in the center of the boat's wake until you gain confidence.

"Later you can try crossing the wake and turning. To turn right, just press hard on your left ski and lean in the direction of the turn. Reverse the procedure to turn left.

"Landing is no problem either: just pull in near shore, or in shallow water, and release the tow line. You'll glide to a stop and sink to the bottom."

—Jim Rusing

SKI MIRROR OFFERS ADDED SAFETY TO WATER SKIERS

THE CONTROVERSY over which is more effective, a wide-angle mirror or a second passenger in the towboat as observer, still rages. Believing

that a skilled driver should want to operate with both, the Jervis Corporation of Grandville, Michigan have announced their Ski-Mirror. The mirror is first surface chrome plated instead of silvered. This plating technique eliminates double images and helps retain the mirror's reflective qualities indefinitely. It also helps prevent fogging, glazing and eliminates glare. Four metallic layers prevent rust and corrosion. The Ski-Mirror fits most decks, and a thick rubber mounting gasket eliminates rattles. — ⚓

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AQUA METER® illuminated MARINE SPEEDOMETERS

. . . a style and speed range for your boat!

Aqua Meter's all-time favorite "Outboarder" series, now illuminated for night and foul-weather reading. In four speed ranges — 35, 45, 55, and 65 mph. Three case styles in triple plated chrome . . . Surface Mount, with big, seagoing appearance, concealed tubing, easy, three-screw mounting . . . Flush Mount, for neat recessed installation . . . "Monitor" Deck Mount for maximum visibility and sleek styling. All with smart 3" black and white dial, distinctive chrome-trimmed red needle, shatter-proof crowned crystals.

SURFACE MOUNT, with tube and light kit **$12.95**
FLUSH MOUNT, with tube and light kit **$12.95**
DECK MOUNT, with tube and light kit **$18.75**

The Aqua-Matic Speedometer Impact Tube, as supplied with all Aqua Meter "Outboarder" speedometers, springs back into position automatically when it strikes driftwood or other obstacles . . . sheds weeds . . . allows uninterrupted speedometer readings.

Aqua Meter speedometers are "certified accurate" by the U.S. Testing Company.

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Speedometers • Barometers • Compasses • Ammeters • Clocks • Panels

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Nothing Else Like It!

Traveler's New Rocket

Terrific pick-up . . . "on the rails" maneuverability . . . beautiful lines . . . deluxe finishes . . . make this new Arkansas Traveler Rocket the prize of the waterways. Fourteen feet of fine performance. Ideal for skiing. Seaworthiness and stability from a full 62-inch beam. Roomy and comfortable. Coast Guard approved life preserver seat cushions. Smooth, self-bailing motor well covers gas tank and battery. All fiber glass construction with safe flotation. Automated, high-volume production in Arkansas Traveler's modern plants makes possible the Rocket's high quality with low price.

FREE! Write today for full-color catalog with specifications on the exciting new 1960 models —both fiber glass and aluminum.

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Arkansas TRAVELER

ARKANSAS TRAVELER BOATS, 2065 E. 14th St., Little Rock, Arkansas. Plants also at: Adams, Wisconsin; Amsterdam, New York. In Canada: Traveler Mfg. Co., Ltd., Peterborough, Ontario.

6 Owens Fiberglas® beauties . . . better in 6 big ways!

Everybody and his brother builds Fiberglas boats . . . but not the way the *Owens* brothers do! When you buy an Owens Fiberglas Outboard, you get a stronger boat . . . a last-longer boat . . . a boat *built up to a quality standard, not down to a price.* And you get all the *value* Owens' volume production makes possible.

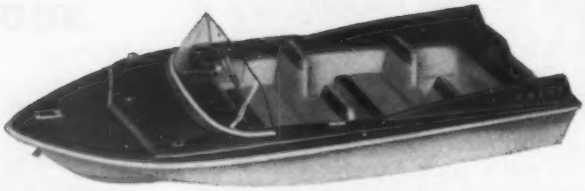
Only Owens Fiberglas boats, with two generations of boat-building knowledge behind them, have *all* these finer features:

1. High-performance hull design, competition-proved, with non-tripping chine for smooth riding and safe, fast turns.
2. Extra layers of glass fabric in bottom and wherever needed for added strength.
3. Built-in seats, integral with hull structure, for utmost rigidity.
4. Full-length Fiberglas bonding of deck to hull for stronger one-piece construction.
5. Trouble-free Owens steering system with stainless steel cables.
6. Brooks Stevens styling in every sleek, modern line.

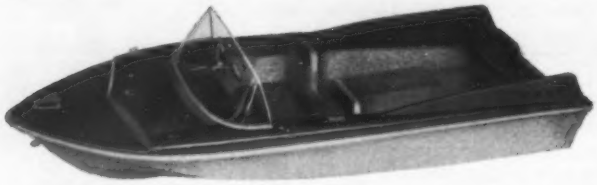
Head for your Owens dealer . . . then for the launching ramp!

OWENS

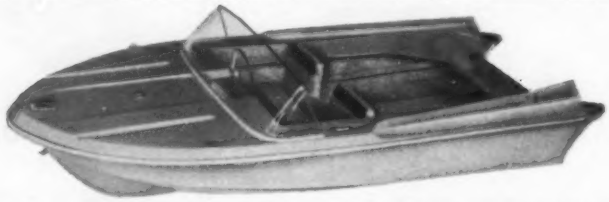
Owens Fiberglas Division, Tell City, Indiana.
©1960, Owens Yacht Co., Inc. . . . builders of 40 models of Yachts, Flagships, Sea Skiffs, Fiberglas Outboards . . . and Flagship Marine Engines. Prices and specifications subject to change without notice.



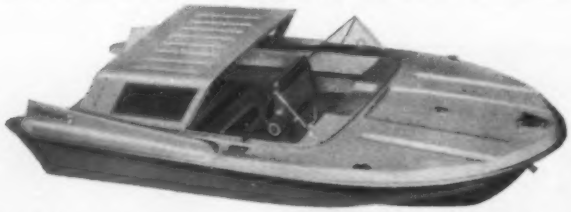
Owens Fiberglas "15" Custom Runabout . . . with walk-through seats for 4 to 6, extra space aft. From $685* . . . $24 a month!



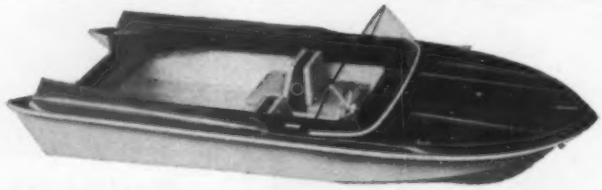
Owens Fiberglas "15" Sport Runabout . . . with 2 upholstered seats, built-in cockpit seats. From $685* . . . $24 a month!



Owens Fiberglas "17" Fisherman . . . with 2 seats, extra-large fishing cockpit. Great for skiing. From $1,065* . . . $35 a month!



Owens Fiberglas "17" Landau . . . with sliding hardtop, sliding side windows, wraparound windshield. From $1,325* . . . $30 a month!



Owens Fiberglas "17" Twinsport . . . ideal for fishing and skiing, with 2 of 4 seats facing aft. From $1,095* . . . $35 a month!

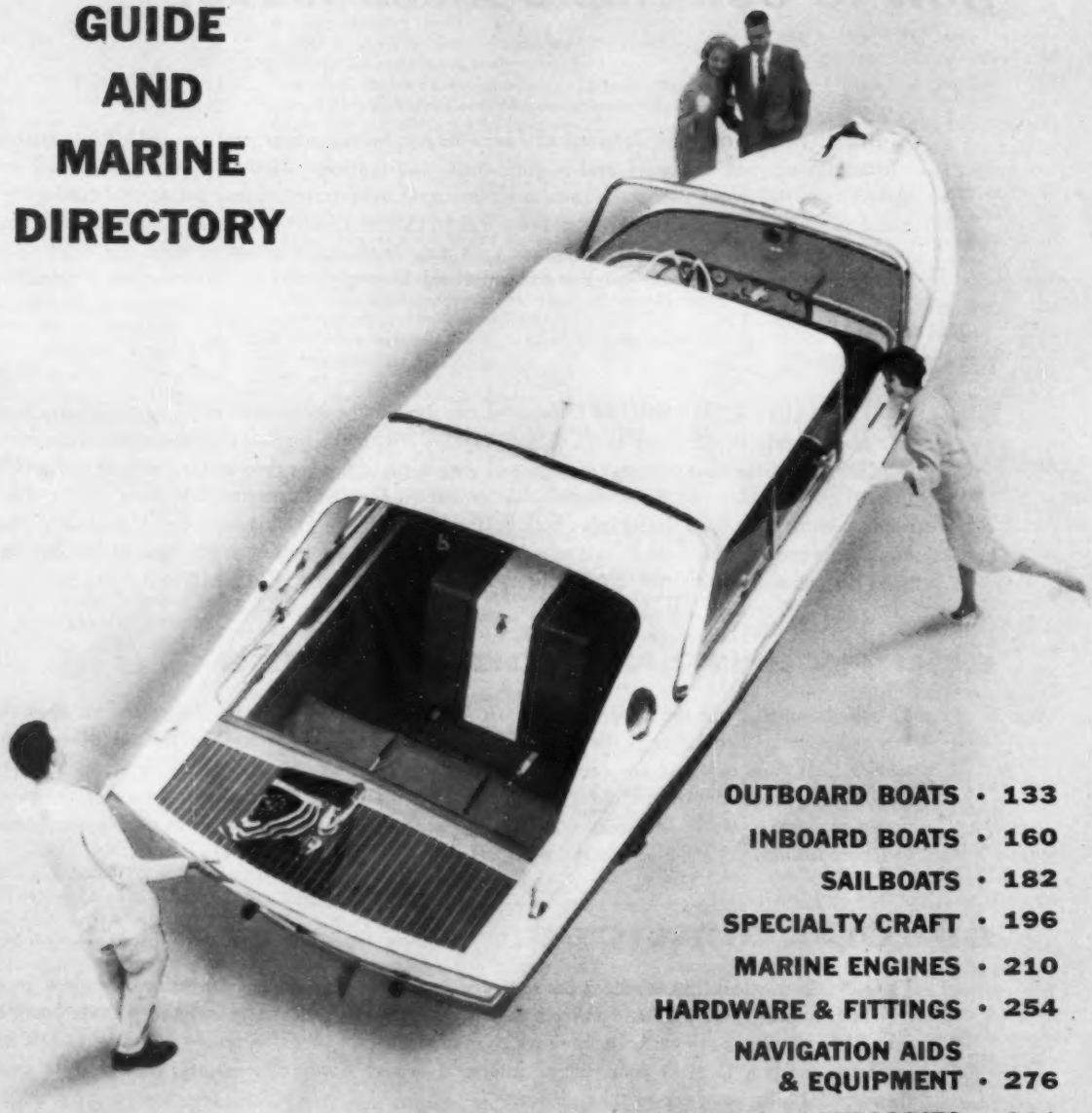
Owens Fiberglas "17" Cruisette . . . with flybridge, airy cabin, comfortable berths for 2. From $1,425* . . . $32 a month!

*F.O.B. Tell City, Indiana. Terms are approximate.

POPULAR

BOATING

COMPLETE BUYING GUIDE AND MARINE DIRECTORY



OUTBOARD BOATS • 133
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1960 MARINE DIRECTORY AND BUYING GUIDE

Presented on the following pages are the more than 3,500 listings of new products for boatman which make up this year's POPULAR BOATING *Directory—the largest and most complete buying guide ever prepared for the pleasure boating field. Items described, in most cases, represent selections from each manufacturer's extensive line, and offer ready reference for sources of similar equipment.* POPULAR BOATING *wishes to thank all branches of the marine industry for their cooperation in the preparation of this special annual issue.—The Editors*

How To Use This Special Issue:

BOATS

NEW BOATS are listed alphabetically according to manufacturer, and are divided into outboard, inboard, sailboats, kit boats, and novelty craft classifications. Models from each company are listed according to size, and those whose announcements were not received in time for normal cataloging will be found at the back in the late-arrival sections. Since prices and specifications are listed whenever possible in this Buying Guide, they should be checked with your local dealer; shipping costs and other factors can cause variations. Consult the index at the end of the Buying Guide for reference list of manufacturers.

MOTORS

OUTBOARD AND INBOARD powerplants should always be selected in direct relation to the type of craft which will carry them. Check carefully with the manufacturer's engine recommendations as listed here in the boat sections; disregard of proper matching between motor and hull continually leads to poor performance and dissatisfaction. After selecting here the engine that most nearly meets your needs, consult your local dealer, plus both boat and engine manufacturers as well if necessary. Repowering can frequently give a used craft new boat performance. The index at the back of the Buying Guide gives the pages on which each manufacturer is listed.

EQUIPMENT AND ACCESSORIES

FEW pastimes match the boatman's pleasure in selecting the best in equipment for his boat. Use the manufacturers listed here as the source for additional items and fittings you may need—many have extensive stocks and can send you free or for a nominal charge their catalogs listing many more products. Choose your accessories from those especially made for marine use; only these can by expected to stand up under exposure to water and weather. To find a manufacturer's address, check the Buying Guide index to locate listings.

SPECIAL SERVICES

DO NOT overlook the excellent booklets and instructions available from paint, fiberglass, rope, gasoline, lumber, insurance and other companies listed here. All are in business because boatmen have found their products are particularly suited to marine use; all profit by telling you how to best use their products, and how to make your boating safer and better. Study their names; contact their dealers for their special aids, or write to them direct.

Photo on preceding page by Habershaw. Century Coronado boat courtesy Bruce Brakenhoff, Orienta Marine Sales, Mamaroneck, N. Y.

OUTBOARD BOATS

OUTBOARD-powered craft are by far the most popular type of boats operating in this country today, and with good reason. Low initial cost, ease of operation and portability make them the favorites with people operating on a relatively low budget, those who are new to the sport, and those who must trail their boats to the nearest waterways. Also, there is such a wide selection of types, sizes and construction, as shown on the following pages, that it is possible to select an outboard boat that meets the needs of every boating family.

Where Will You Use It?

This wide selection of outboard powered boats can lead to difficulty in making the correct choice. A boat designed for operation on a small, inland lake is no craft to use for offshore fishing along the seacoast, for example. Here are some suggestions that will help you to select a boat that will be most suitable for your individual requirements:

If the boat is to be used primarily in sheltered waters, and you need one that is easily carried and launched, examine the aluminum, fiberglass, and wooden car top craft that can be carried without a trailer. While today's aluminum alloys are extremely resistant to corrosion from air and water, aluminum craft are still best suited for fresh-water use. If an aluminum boat is to be used and moored in salt water, check with local dealers to find an anti-fouling bottom paint that will not set up a corrosive action on the hull itself. And, as with any non-wooden boat, be sure that proper flotation has been provided to keep boat, passengers, motor and equipment afloat in case of swamping.

If the boat is to be used primarily on large lakes, bays, or for offshore fishing, the craft must be one which can get you back safely to shore in the event of a sudden storm. Freeboard, the height that the sides of your boat extend above the water, can keep out waves that want to climb aboard if yours is a stable hull. Bigger craft carry more freeboard not because they need it to keep afloat, but to fend off larger seas when they get into rough water. Will the boat you want take a 20-inch rather than a 16-inch motor drive shaft? The longer length allows a higher transom cut-out and less chance of a following sea flooding in over the transom. And does the model you want have a self-bailing motor well so that any water which may come aboard from astern will run right out again? Even in calm water, an outboard run rapidly in reverse can start taking water over a low transom cut-out. Perhaps you will want a boat with a motor mount rigged behind the transom so that there is no cut-out on the transom itself.

Wooden hulls of plank-on-edge, lapstrake or plywood construction, fiberglass hulls, and aluminum hulls all have their advantages and disadvantages in terms of cost, upkeep and longevity. Choose a boat of a material that is known to stand up well in your area, and one made by a reputable builder. A poorly-built boat is a bad investment, even if the initial cost is extremely low. One way to check construction features is to follow the procedures outlined in the monthly POPULAR BOATING test series.

CHECK LIST FOR THE OUTBOARD BUYERS

- ☐ **Is the boat you are considering made by a recognized boat builder?**
- ☐ **Have you discussed performance with owners of similar models?**
- ☐ **Is this a style which has proven seaworthy and popular on your local waterways?**
- ☐ **Has the construction material (wood, canvas, metal, fiberglass) proved to be durable and requiring minimum maintenance in your area?**
- ☐ **Will it trailer easily?**

Hull Speed

- ☐ **Does this boat have a reputation for top performance using recommended horsepower?**
- ☐ **Is it specifically recommended for water skiing?**
- ☐ **Can the transom take twin motors if desired?**
- ☐ **Is the boat recommended for planing speeds, or is it a heavier displacement type?**
- ☐ **Is it known to handle well in turns or does the chine tend to trip it?**

Hull Safety

- ☐ **Is there enough freeboard and stability so that waves will not wash aboard?**
- ☐ **Is the transom cut-out 20-inches for the safer long-shaft motors?**
- ☐ **Is there a self-bailing motor well?**
- ☐ **Is the windshield of safety glass or shatter-proof plastic?**
- ☐ **Is adequate flotation provided, preferably under the decks so that the boat will not capsize if swamped?**
- ☐ **Is the transom firmly installed with knees, breast hooks, and braces so that it can handle the thrust of the motors?**

Accommodations

- ☐ **Can passengers sleep aboard?**
- ☐ **Can a top be rigged for sun, rain, and mosquito protection?**
- ☐ **If an outboard cruiser, does it have a marine toilet?**
- ☐ **Does it come with legally required lights, life-preservers, fire extinguishers, etc.?**
- ☐ **Is there storage area for extra gas cans, battery, anchor and lines?**

What Boat Type?

Outboard boats range from small, open utility craft to cabin cruisers in the 25-foot range. Hull types may be of displacement, semi-planing, or hydroplane (for out-and-out-racing) form. Catamarans and trimaran or "cathedral hull" types are becoming increasingly popular as they have proved to be stable designs for rough-water operation. Utility boats generally range from eight to 16 feet in length, and have no deck. Runabouts range from 12 to 18 feet, and have a foredeck, and in some cases center decks or stern decks, or both. Cruisers range from about 16 feet to 26 feet in length, and have a cabin and provision for sleeping aboard. Naturally, the larger the boat the more it can offer in the way of live-aboard facilities, such as berths, toilet and galley.

When Will You Use It?

Ask yourself honestly how long your boating season will be, and how many weekends you will plan to be aboard. Many an owner has chosen a runabout for afternoon water skiing, and then wished he had an outboard cruiser so he could sleep aboard and take longer trips. Will you and your friends be using the boat for cruising, camping and picnicking? Select a hull that can safely carry a crowd if you have this kind of boating in mind. Will you use the boat on cool days as well as warm? See if a convertible top is available to shield you from chilly winds and rain, and one that can be screened in mid-summer to protect you from mosquitoes and other annoying insects. Will you want to combine cruising and water skiing? An outboard can be selected that is adaptable to both these sports if you make the proper choice in advance. Will the boat's styling retain its appeal in years to come, to maintain its trade-in value? And keep in mind that the boat made by a reputable manufacturer in a model that is well-liked in your local waterways will get the best resale price when you trade it in.

AERO-GLAS BOATS
400 WATER ST.
ST. CHARLES, MICH.

NEPTUNE 16
A natural for all types of cruising, fishing or water sports, the Neptune features fortified double bottom, rubber molding gunwale guard, multicolor interior and styrofoam flotation. Available in standard model less windshield and upholstery.

ADENTURER AD-18
The Adventurer offers maximum safety, stability, dryness and performance in a cruiser OBC rated for 95 hp. Features reversible front seat backs, marine plywood floor, large storage compartment under front seat and in bow, side pockets and spacious open back measuring 6'x11'. Many extras are listed as standard equipment.

AERO MANUFACTURING CORP.
SYRACUSE, IND.

MODEL R-14-A SEA NYMPH
14' x 52" x 24" cartop fishing boat weighs 125 lbs., and is recommended for use with motors up to 12 HP. Boat features round bottom design. Company also offers Model 14-RU, 14' x 62" runabout rated for 25 HP motors.

MODEL R-12-A
12' cartop boat weighs 85 lbs., is suitable for rowing and recommended for use with motors to 7½ HP. Company offers both aluminum and fiberglass boats, including fishing boats, runabouts and family boats.

ALUMA CRAFT BOAT CO.
1515 CENTRAL AVE., N.E.
MINNEAPOLIS, MINN.

18' QUEEN MERRIE DELUXE
18' aluminum runabout features back-to-back jump seats and flat-floored cockpit. Boat weighs about 560 lbs., and is recommended for use with motors to 90 HP. Optional equipment includes fiberglass hardtop, under-deck bunks, steering, windshield and hardware.

18' TRIPOLI
18' fiberglass boat features back-to-back jump seats, flat-floored cockpit and is recommended for use with motors to 90 HP. Equipment includes steering, hardware, lights, windshield, glove compartment and concealed gas can compartment.

16' TANGIER
16' fiberglass runabout features clipper bow, quick planing hull and stable-matic chines. Equipment includes upholstered back-to-back seats, flat cockpit floor, concealed gas tank storage, steering and windshield. Boat is recommended for motors to 85 HP.

AMERICAN FINN BOAT CORP.
495 S. GROVE ST.
FREEPORT, L. I., N. Y.

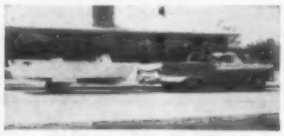
17' SKI FINN
17'3" x 6'8" x 3'6" boat weighs approximately 890 lbs., and features planking of ½" African mahogany, with oak stem and keel. Equipment includes opening windshields, forward hatch, self-bailing motor well, back and front seats with storage, head space, full hardware and steering unit. Price: $1475.

19' FAMILY FINN
19' x 7'2" x 3'10" boat features ½" African mahogany planking and oak stem and keel. Equipment includes opening windshields, forward hatch, self-bailing motor well, back and front seats with storage, facilities for head, full hardware and steering unit. Price: $1595.

21' OCEAN FINN
21' x 8' x 4'7" hard top boat weighs approximately 1480 lbs., and has planking of 9/16" African mahogany, and oak stem and keel. Equipment includes opening wind shields, forward hatch, self-bailing

motor well, back and front seats with storage, facilities for a head, full hardware and steering unit. Price: $2145.

AMPHIBIOUS BOATS, INC.
DALLAS, TEXAS



AMPHIBIAN BOATS
Fiberglass amphibious boats, from 14' runabouts to 19' cruisers, are equipped with retractable wheel assembly eliminating need for trailers. When wheels are down, boat can be towed on the road, and after launching, wheel assembly retracts into seat-well within the boat, hidden from view. Company also produces a line of conventional fiberglass boats, called the Falcon, from 14' runabouts to 19' outboard cabin cruisers.

ANCHORAGE, INC.
57 MILLER ST., WARREN 3, R. I.

16' GLAMOUR GIRL
15'9"x5'10"x14". Utility carries 5 to 6 and features extreme flare at bow with narrow entrance, flat stern with protecting skeg, and is lightweight for trailer transportation and yacht tender service. Can be used with either single or twin outboard installations.

ATLANTA BOAT WORKS
PYLANT STREET, N.E.
ATLANTA 6, GA.

ARISTO-CRAFT 17 FUN LINER
17' fiberglass runabout is equipped with upholstered seats, steering and hardware. Price: $995. Accessories include hardtop, $129, including stern light.

BARBOUR BOATS, INC.
SOUTH FRONT ST., NEW BERN, N. C.

12' UTILITY
12'2"x59¼", hull weight, 210 lbs. Utility for motors from 5 to 25 HP, with top speed of 30 mph at 25 HP. Carries 4, hull mahogany planked. Price, $395 with center deck. Accessories are back rest, brass half oval, steering wheel, windshield, top and side curtains, mooring cover and bow locker.

VACATIONER
15'3½"x66½", hull weight, approximately 400 lbs. For motors from 18 to 35 HP, with top speed of 32 mph at 35 HP. Carries 5, hull mahogany planked. Price, $525. Accessories include back rest, brass half oval, steering wheel, windshield, top and side curtains, mooring cover and bow locker.

16' SILVER CLIPPER
16'3"x6'3", for motors from 35 to 70 HP, at which top speed is 36 mph. Carries 6, mahogany planking, anti-fouling paint, forward and aft cushions, steering wheel, all chrome fittings, stern and bow lights, bow chocks, cleats, chrome bumper guard, plexiglas wrap-around windshield, forward storage compartment, self-draining motor well and cockpit. Price, $1,195. Accessories, are opening wooden windshield, canopy top, cockpit cover, drop curtain, mooring cover, drain plug and optional seating.

SILVER CLIPPER SPORTSMAN
22'x7'6", for motors from 35 to 75 HP, with top speed of 32 mph at 70 HP. Has head, windshield, lifting rings, running lights, cushions, steering wheel, forward storage compartment, anti-fouling paint, all chrome fittings, bow chocks, cleats, chrome bumper guard, self-draining cockpit and motor well. Price, $2,100. Accessories include canopy top, side curtains, cockpit cover with motor pocket, drop curtain, toilet and double bottom.

BARRACUDA MARINE CO.
311 ASHLAND AVE.
AURORA, ILL.

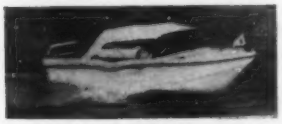
FISHING BOATS
Boats offered include 2 new models, the Nordic, 13' x 52" x 26", and the Resorter, 14'4" x 56 x 27", both with three molded-in seats with air flotation chambers. Fiberglass gunwales are molded into hull. Nordic is recommended for use with motors from 3 to 10 hp. Resorter for 3 to 20 hp. Prices: Nordic, $270; Resorter, $315.

CORONADO
13'10" x 61" x 28" fiberglass run-

about has upholstered walk-through front seat, windshield, steerer and rigging and deck hardware. It is recommended for use with motors to 40 hp. Price: $535.

JAGUAR

15′ x 63″ x 28″ aluminum runabout is recommended for use with motors from 15 to 50 hp. Standard equipment includes 51″ front deck, upholstered walk-through front seat and solid stern seat, windshield, steerer and rigging, hardware, non-slip inside floor walk, one-piece bottom, pressed-in spray rails, syphon drain and 55″ transom. Price: $599.



NASSAU

16′ x 68″ x 31″ fiberglass boat is recommended for use with motors from 25 to 70 hp. Standard equipment includes 3 upholstered seats, 20″ windshield, steerer, rigging and bow and stern lights. Price: $950. Convertible top is optional.

●

BEALL BOAT SHOP
ROUTE 2, SEVERNA PARK, MD.

LAPSTRAKE

15′8″x59″ lapstrake utility with 25″ depth at bow, ⅜″ plywood laps, ½″ bottom.

BEALL BOAT

14′x63″ molded hull runabout with a 60″ foredeck, walk through cockpit, and controls forward.

●

BOATCO INC.
6411 23RD AVE.
BROOKLYN 4, N.Y.

19′ CORONET

Built by top boat-building yards in Finland, Finncrest boats are safe, dependable and seaworthy as well as attractive. The 19′ Coronet has overall center line length of 18′9″, beam 6′8″ and weight of 800 lbs. Available in either outboard or inboard model. Recommended horsepower range, 30-70. Speeds to 38 mph. Price, $1,395. Hard Top model, $1,595. 19′ Consul Cabin Model, $1,895.

21′ MONARCH

Length 21′, beam 7′9″, weight 1200 lbs. The 21′ Monarch is available in inboard or outboard model. Recommended range horsepower, 35-120. Speeds to 35 mph. Price, $1,795. Hard Top Model, $2,095. 21′ Crown Cabin Model, $2,595.

24′ IMPERIAL

Standard equipment includes mahogany windshield and side shields, fore and aft full seats with complete backrests, storage compartments, 20″ solid transom, and many other features considered extras on other boats. Offered in inboard hard top model as well as outboard.

●

CAPE COD SHIPBUILDING CO.
WAREHAM, MASS.

STORMY PETREL

15′x61″. Weight, 265 lbs. Freeboard, 24″; depth midship, 2′5″. Fiberglass construction. Takes motors 3 to 30 HP. Air tanks provide maximum safety. One piece seat back and bridge deck divide cockpit. Price with equipment shown, $585.

●

CAROLINA FIBERGLASS PRODUCTS CO.
WILSON, N. C.

"SHEARWATER" BOATS

Line includes boats from 12′ through 16′, and included are 12′ 14′ and 15′ fishing and hunting boats, and 14′, 15′ and 16′ runabouts. Runabouts are designed with V-bottoms and flared bows after the Hawkers Island, or Core Sound boats. Some models include swivel-type fishing chairs, fore and aft seats and folding back seats. Self-bailing motor well is standard in each model. Prices: from $225 to $995.

●

CAROLINE BOAT WORKS, INC.
2219 BOSTON ST.
BALTIMORE, MD.

16′ RUNABOUT

16′x72″x34″ runabout has 5-ply marine mahogany sides and bottom, reinforced transom for twin installation, steering and windshield. Price: $599. Company also offers a 19′ model with similar detailing.

14′ RUNABOUT

14′x66″x30″ runabout has 5-ply marine mahogany sides and bottom, and features walk-through seat back, steering and windshield. Price: $465.

●

CARVER BOAT CO.
PULASKI, WIS.

CARVER CUSTOM COMMANDER

The new 1960 16′ Carver Custom Commander features wood frame ventilating wrap-around windshield, new swin and ski ladder, large padded dash, 12 ply inter-stress bottom, and 2-tone hot spray varnish finish. Price, $1,295. A 16′ Commander is also offered at $995.

CARIBBEAN CARVER CRUISER

The all new 20′ Caribbean

Carver Cruiser features wood frame wrap-around windshield, large cockpit, sleeps 4, and contains ample storage space. Price, $1,795. Carver offers a complete line of sturdy boats ranging from the 15′ Commander to the 20′ Custom Caribbean.

●

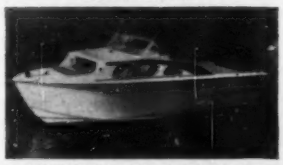
CASEY CRAFT
P. O. BOX 175, MERMENTAU, LA.

OUTBOARDS

20′ outboard is available in five models. All-steel boats have such features as water circulator for keeping bait or fish alive, and reversible back seats for cruising or fishing and skiing. Prices: from $1,045 to $2,995.

●

CHRISBANK CORP.
P.O. BOX 111
KISSIMMEE, FLA.



HOLIDAY KITTYWAKE CABIN CRUISER

20′ cruiser is fiberglassed over Cuprinol-treated marine plywood. Standard equipment includes hardware, windshield, plexi-glass hatch cover, deep well, cabin shelves and Nautolex vinyl flooring covering. Company also offers 20′ Kittyhawk hard top, Sportsman and 18′ Tarpon convertible. Prices: from $1,345 to $1,970.

●

CLYDE BOAT CO.
8600 LIVERNOIS
DETROIT 4, MICH.

MODEL 15 SUPER DELUX

14′10″ x 68″ x 30″ runabout is available in three models, Family, Delux and Super Delux. Prices: Family, $295; Delux, $395; Super Delux, $450; with all accessories, $575. Company also offers 13′ and 17′ runabouts in three models each.

●

CORONET BOAT CO.
2233 EASTERN AVE.
CINCINNATI 2, OHIO

21′ EXPLORER

21′ boat can be used as outboard model or powered with Swedish Volvo Transmount marine engine with Aquamatic drive. Features include all-mahogany plywood hull with double fiberglass covering, and converts to sleep three or four. Panoramic windshield is retractable.

CORONET 18′ SEDAN

18′ boat converts to sleep three or four, and is available either as outboard model or powered with Swedish Volvo Transmount marine engine with Aquamatic drive. Features include all mahogany plywood hull with double fiberglass covering, and retractable panoramic windshields.

●

COWELL BOAT WORKS
EAST LAKE ROAD, M.R. 13
ERIE, PA.

CABIN CRUISER

19′ x 86″ cabin cruiser is of full lapstrake design, with cabin converting from runabout to two-bunk cruiser. Boat has provision for marine closet. Price, from $1,650.

ROYAL

16′ x 72″ runabout is of full lapstrake construction, and features self-bailing well, walk-through seat back with storage under front seat. Boat is made of Weldwood Royal Marine plywood. Price: from $625.

●

CRESTLINER
LITTLE FALLS, MINN.

CRESTLINER 14′

One of a new series of fiberglass models with 35-40 HP motor capacity. Crestliner boats feature construction in fiberglass, aluminum and Royalite safety float. 1959 line includes 35 models.

IMPERIAL FLYING CREST 17′

With a weight of 620 lbs. and a beam of 76″, the aluminum Imperial Flying Crest 17′ will take 80 hp and is suitable for twin engines. Designed with the woman outboard boat shopper in mind, it is distinctively marked by custom-styled upholstered, cushionized seats and stylized upholstered instrument panel. Optional equipment includes convertible top and Add-a-seat side seats.

●

CRIS-WOOD BOAT CO.
SEEKONK, MASS.

CARTOP
11'x50"x18", for motors to 10 HP. Has aircraft birch molded plywood hull and full length spray rails. Also available in 14'2", 14'8", 15'2" and 16'2" models with "Aero-Jet" 26½ HP inboard. Price: 11' model, $210.

CORVETTE
Has customized interior, upholstered seat backs and life preserver cushion seats. In 3 sizes: 12'2"x61", 14'2"x60", and 15'2"x65". Smallest model takes up to 25 HP, others take up to 50 HP. Features aircraft birch molded plywood hull, full length spray rails and mahogany decks. Prices: 12' model, $456; 14', $555, and 15', $586. Accessories available.

FISHERMAN
In 3 sizes: 14'2"x60", 14'8"x56", and 15'2"x65". Model has walk-through front cockpit and extra large rear cockpit. Features aircraft birch molded plywood hull, full-length spray rails and mahogany decks. Prices: 14', $462; 15', $522. Also 16' with windshield, deck hardware, $750, and 18' with windshield and deck hardware, $850. Accessories for all models include windshield, steering, step pads, running lights, speedometer, remote controls, chrome trim and convertible top.

FIESTA
In 4 sizes: 12'2"x55", 14'2"x60, 14'8"x56" and 15'2"x65". Runabout has full center deck, 2 cockpits and motor well. Hull is of aircraft birch molded plywood, and features full length spray rails and mahogany decks. Smallest model is recommended for use with 20 HP, other models can take 50 HP outboards.

HOLIDAY
In 3 sizes: 12'2"x55", 15'2"x60" and 15'2"x65". Boat features 3 seats with removable backs. Smallest model suitable for 20 HP motors, 2 larger models for 50 HP motors. Runabouts have aircraft birch molded plywood hull, full length spray rails and mahogany decks. Prices: 12' model, $326; 14' model, $396, and 15' model, $458. Accessories are available, including windshield, complete steering, step pads, running lights, speedometer, remote controls, chrome trim and convertible top.

●

CROSBY AEROMARINE
GRABILL, IND.

ROVER
15' x 71" fiberglass family utility has forward step-through seat, open rear cockpit and complete electrical circuit. Fuel tank and battery storage are molded in. Boat is recommended for use with motors to 60 hp. Also available are 15' Sportsman sports utility with aft-facing seat, and 15' Hurricane runabout with forward step-through seat and aft seat with center arm rest concealing battery and fuel tank compartment.

CRUISETTE
17' x 82" fiberglass utility cabin cruiser has 54" x 12" motor mount for single or twin installations to 94 hp. Features include twin full-length bunks, divided galley with stainless steel sink, cabin front that opens up, and wide side decks.

ROAMER
17' x 79½" fiberglass family utility has custom-styled hardware, molded-in battery and fuel tank compartments, and complete electrical circuit. It is rated for use with motors to 100 hp. Also available are 17' Fish-N-Ski sports utility with aft-facing rear seat, and 17' Capri runabout with forward step-through seat and concealed fuel tank and battery storage under rear seat arm rest.

RANGER
19' x 91" x 44" deep water sports utility of fiberglass construction can be used with motors to 150 hp, and features step-through front seat, motor mount and contoured transom, molded-in battery and fuel tank storage, complete electrical circuit, and foam flotation.

VOYAGEUR
19' fiberglass luxury cabin cruiser has twin full-length berths, divided galley with stainless steel sink, wood flooring, outside-fill fresh water tank, stove and ice box, single-cable steering, helm seat, and foot rest.

●

CROWNLINE
ONARGA, ILL.

CROWNLINE MODEL X70E
15' x 71" x 31" runabout is of fiberglass, and features walk-through front seat and solid stern seat.

CROWNLINE MODEL X80E
16' x 77" x 34" fiberglass runabout is 1960 model, and has walk-through front seat and solid stern seat.

●

CUSTOM CRAFT MARINE CO.
1700 NIAGARA ST., BUFFALO 7, N. Y.

CORVET PB-48 OUTBOARD
17' x 8'2" runabout, one of a new line of 17' to 22' cruisers and runabouts. All have fiberglass decks. Also available:

other purpose boats starting from 8'. Catalog available for 25¢.

●

CUTTER BOATS, INC.
TROY RD., TELL CITY, IND.

15' CUTTER COMO
Plenty of seating space is the feature of this fiberglass Cutter Como, priced at $685. Optional equipment of deck hardware, steering and windshield, $111.

●

DORSETT PLASTICS CORP.
845 REED ST.
SANTA CLARA, CALIF.

BELMONT RUNABOUTS
The 15' Belmont series are built for action and deep V-forward gives easy entry for a cushioned ride. Hull of super-strong Iso-Glas, stays bright as new forever. All Dorsett boats are performance-tested.

17' LEXINGTON
The 17' Dorsett Sport Lexington runabout features the Tilt-Lock windshield, a Dorsett exclusive. It folds down for ease in getting in and out of the boat when beached and locks in place. An attractive range of colors are available. Ideal for fishermen and water skiers.

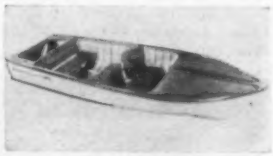
●

FARALLON EXPRESS CRUISER
Flagship of the Dorsett Fleet for 1960 is the very livable Farallon. The spacious cabin, with four full-sized bunks, comes equipped with many extras listed as standard equipment. The cabin has 67" of

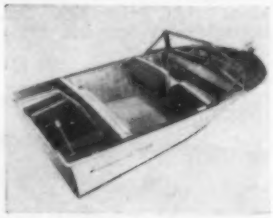
headroom and an airfoam headliner.

●

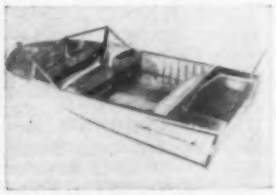
DUNPHY BOAT CORP.
P. O. BOX 738
OSHKOSH, WIS.



DUNPHY EXPLORER EXPRESS
16' x 72" lapstrake runabout has walk-through front seat and full rear seat. Price: $655. Also available in Imperial model with hardware, lights, windshield, cushions, etc., $865.



DUNPHY VOYAGER IMPERIAL
17' x 80" lapstrake runabout has flared bow, wide deck hatch, front seat springs, fully-enclosed motor well, carpeted floor and custom-tailored cushions. Price: $1,335 including deck hardware and bow and stern lights. Other models are offered by company in 14' to 19', in choice of utility or deluxe types.



BLUEWATER IMPERIAL
19' boat features lapstrake construction, walk-through front seat, and windshield. Price: $1,550 equipped; Standard model, $1,265. Convertible top or complete camper top is available.

DUNPHY WAYFARER
19'2" x 93" boat converts from open runabout to fully-en-

Paints with Colorizer Marine Finishes

If you take a little more pride in your boat than the next man . . . if you give it a little more care to keep it shipshape . . . then give it Colorizer the next time you repaint. You'll get a sailor-tested, super-tough finish that will still be around and still be beautiful long after an ordinary paint would have faded and dulled.

Better marine dealers offer Colorizer hull and topside enamels, anti-fouling bottom paints, stainfill, metal primer, undercoat, sealer and spar varnish. They're formulated for all fresh-water and salt-water conditions, over wood, steel, aluminum and fiberglas.

FREE COLOR CHART: *A whole new range of colors for modern-day boating, plus the old favorite nautical colors. Write Colorizer Associates, 347 North Western Ave., Chicago 12, Ill.*

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Colorizer® MARINE FINISHES

Where to Buy: Contact your nearest marine dealer or the Colorizer paint firm in your area selling one of these paint brands: BENNETT'S • BROOKLYN PAINT & VARNISH CO. • BLUE RIBBON • BOYSEN • BUTE • GREAT WESTERN • JEWEL • KOMAC • LION BRAND • VANE-CALVERT • WARREN'S • WETHERILL'S • In Canada: FLO-GLAZE • In England: ROBBIALAC

closed overnighter with screened camper top, with conventional sunshade top in between stages. Equipment includes 2 front bunks with cushions. Price: $1,595. Options include stern bunks, cushions, and marine head. Also available is 16′ Junior Wayfarer.

●

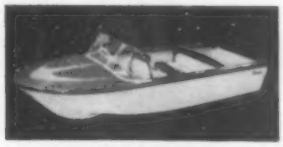
FABUGLAS CO.
312 JEFFERSON ST.
NASHVILLE 8, TENN.

MODEL NO. 5916
IMPERIAL 17 DELUXE

15′11″x74″x37″ fiberglass one-piece boat hull has side seating and double bottom. Recommended for use with a maximum of 80 HP for one motor, boat has shock-absorbing gunwale guard and flotation. Price, $1,199. Accessories available for all models.

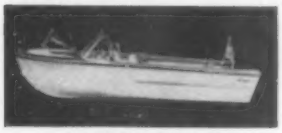
MODEL NO. 5914
CLIPPER 15 DELUXE

14′1″x70″x33″ fiberglass boat has one piece hull and decks and double-bottom flotation stem to stern. Features include shock-absorbing gunwale guard. Recommended for use with 60 HP maximum for one motor; boat weighs approximately 500 lbs. Price, $930. Accessories available for all models.



LANCER 15

Length gunwale 15′3″, beam 66″. Double bottom hull has extra large flotation capacity for maximum safety. Drain plug and vent. Upholstered front step through seat. Steering wheel complete with accessories. Fiberglass constructed one-piece hull and deck. Wide choice of color combinations. Price for deluxe model $795.



COMMANDER 16

Length gunwale 16′4″, beam 74″. Aquafoil hull gives quick planing. Deep upholstered front seats, backs interchange with rear location, plush rear side seat cushions, front seat foot rest. Stainless steel side bumper reinforced with waterproofed oak. Complete set of hardware and fittings. Price of deluxe overnighter with side seating, $1,149. Fabuglas boat range in price from $374 for the Fish & Hunt to $1,249 for the Imperial deluxe model with side seating.

●

FEATHER CRAFT, INC.
450 BISHOP ST., N.W.
ATLANTA 13, GA.

SKI-BO

14′9″x66″x29½″ runabout is recommended for use with motors to 45 hp, and can carry 5 adults. Standard equipment includes windshield, steering and upholstered backrest(s) and bottom preserver cushions. Center section of backrest is open for aft-facing passenger. Price, $725.

ISLANDER EXPRESS CRUISER

18′x86″x40″ will sleep two or carry 7 adults, and is recommended for use with motors up to 100 hp. Price, $1,875. Also available is Standard Islander, convertible into a sleeper.

HAWK III

14′2″x61″x31″ aluminum runabout features fiberglass-fused deck, upholstered backrest(s) and bottom preserver cushions, windshield and steering. Boat is recommended for use with motors up to 40 hp. Price, $598.

●

FISHER-PIERCE CO.
MARINE DIVISION
ROCKLAND, MASS.

BOSTON WHALER

13′6″x5′5″ boat weighs 275 lbs. and can carry 4 to 6 adults. Recommended for use with motors up to 35 HP, at which top speed is approximately 33 mph; boat has double fiberglass hull 2″ thick, with entire cavity filled with rigid polyurethane foam plastic. Features include varnished seats and locker tops, forward and aft, of mahogany or Spanish cedar.

●

FLAMBEAU CORP.
PARK FALLS, WIS.

ST. CROIX BOATS

A complete line of St. Croix Boats are available for fishing, boating and water sports ranging from a cartop to the sleek Sea Hawk Premier. All boats fiberglass constructed.

●

FLARE FIBERGLASS BOAT CO.
LAKELAND, FLA.

ISLANDER

All fiberglass 19′8″x88″, Islander includes, as standard equipment, ¼″ plexiglas windshield, tailored top with boot, walk-thru front seat with snap-in cushions, regulation running lights, step plates, self-bailing motor well, sandwich construction bottom, fishing rod holders, gunwale bumper, complete deck hardware, and transom handles, 1¼″ adjustable drain plug, combination control mounts and storage compartments under deck. Price, $1695, FOB.

●

FLYING FINN, INC.
527 LEXINGTON AVE.
NEW YORK 17, N.Y.

GULFIN 16

15′6″ x 74″ runabout weighs 550 lbs. and is recommended for use with outboards from 20 hp to 40 hp. Top speed of 5-seater is 32 mph with 40 hp. Features include lapstrake construction to keel, copper rivets, and full keel. Price: $935, with windshield. Accessories include cushions, convertible top, side curtains, back curtain.

BAYFIN 17

16′9″ x 76″ runabout weighs 650 lbs. and is recommended for use with 35 hp to 75 hp motor. Boat carries 6, has full keel, copper rivet fastenings, lapstrake to keel. Price: $1195 with windshield. Accessories include cushions, convertible top, side and back curtains, mooring cover and 30 gal. fiberglass fuel tank.

SEAFIN 19

18′6″ x 82″ runabout weighs 800 lbs., carries 6 and is recommended for use with 35 to 75 HP motors. Features include lapstrake construction to keel, copper rivets, and full keel. Price: $1435, with windshield. Accessories available are cushions, convertible top, side and back curtains, mooring, cover and 30 gal. fiberglass fuel tank.

SEAFIN 21

20′8″ x 90″ boat weighs 1,000 lbs., carries 8 and can be used with single 60 hp to 75 hp motor or twin 40 hp motors. Features include lapstrake to keel construction, copper rivets, full keel, and overnight accommodations. Price, $1785, with windshield. Accessories available are cushions, convertible top, side and back curtains, mooring cover and 30 gal. fiberglass fuel tank.

●

GENERAL MARINE CO.
6TH & OAK ST.
ST. JOSEPH, MO.

NAMDRAH M-118D

18′x72″x31″ boat has Philippine mahogany ribbon-striped plywood sides, bottom and decking, with fiberglass fins as optional equipment. Boat seats 7. Equipment includes, windshield, upholstery with side panels and removable self-draining motor well. Price: $1265.

SULTANA M-617

17′x72″x32″ fiberglass boat has one-piece molded hull and deck, and seats 6. Equipment includes walk through front seat, upholstered center deck, ski racks, windshield, upholstery and steering wheel. Price: $1170.

SPEEDLINER PLYWOOD BOATS

Line of 17 models includes boats from 10′ to 20′ in length, with Philippine mahogany ribbon-striped plywood sides, bottom and decking. Model M-120 sleeps 4 and has stove and head. Prices: from $335 to $1795.

SPEEDLINER FIBERGLASS BOATS

Line of 14 models includes 15′, 16′ and 17′ boats, with one-piece molded hulls and decks. Model M-717 sleeps 2 and has stove and head, and most models are available with Philippine mahogany plywood decking. Prices: from $665 to $1295.

●

GLASS MAGIC, INC.
2730 LUDELLE ST., FORT WORTH, TEX.

CUSTOM ROYAL

14′x66″x30″. Weight approx. 425 lbs. Luxury runabout of fiberglass construction completely outfitted in gold, silver and white. Features Naugahyde covered foam rubber seats, upholstered side panels. Takes up to 50 HP motors. Also available in 14-foot line: "Vixen," low-cost runabout; "Skimaster," ski-tow boat; and "Playmaster," center deck runabout. Price, $895.

MOBIL WINS AGAIN!

Maverick, America's Powerboat Champion for 1959
Piloted by Bill Stead, this sleek hydroplane roared to victory in five major powerboat races in 1959, to become the winner of the highly prized High Point Trophy. Like other champions and world record holders, Maverick was Mobil fueled and lubricated.

IN 1959, all seven Cup Races, plus the International Sweeps and Pyramid Lake events, were won by hydroplanes using Mobil fuels and lubricants. The present American speed records for both jet-powered and propeller-driven boats were set by racers using Mobil products.

Mobil fuels and lubricants are the first choice of boating champions throughout the world . . . and there's no better proof of performance and dependability than being the consistent winner. Naturally . . .

You're Miles Ahead with Mobil!

Don't miss the Mobil Exhibit, at Booth C 182-183, the 1960 National Motor Boat Show!

Stop by Booth C 182-183 for exciting news that will be of special interest to all you boat owners . . . and be sure to pick up a copy of this fully illustrated, 160-page book that offers detailed information on every aspect of boating.

Mobil

Marine Products

MOBIL OIL COMPANY, A Division of Socony Mobil Oil Company, Inc.
150 East 42nd Street, New York 17, N. Y.

RANGER
17'x87"x44". Weight, approx. 700 lbs. Will take up to 100 HP in twin installations. Available with twin bunks to sleep two. Fiberglass construction. 17' Surfmaster runabout with accessory fiberglass hardtop also available. Price, $1,595.

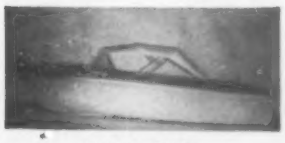
VOYAGER
19'1"x8'x48". Weight approx. 1,500 lbs. Cruiser will take up to 130 HP motors. Sleeps four, has provision for galley, toilet and storage. Fiberglass construction. 19' Cruisemaster runabout with optional fiberglass hardtop also available. Price, $3,795.

PLAYMASTER
Fiberglass runabout is OBC rated at 50 horsepower; will attain speeds to 33 mph. Available only in solid white with gold and chrome trim.

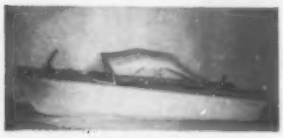
●

GLASS MASTER PLASTICS CO.
5400 SHAKESPEARE RD.
COLUMBIA, S. C.

SEALECTRA
15'8" x 70" fiberglass deluxe runabout weighs 450 lbs., approximately, and is rated for use with motors to 60 HP. Price, $795.



GLIDERIDE
17'6" x 80" fiberglass boat is available in three models: Utility, Deluxe Utility, and Cabin Cruiser. Boat weighs approximately 550 lbs. in utility models, 600 lbs. as cruiser, and all models are rated for use with motors to 85 HP. Prices: utility, $995; deluxe utility, $1,095 and cabin cruiser, cruiser, $1,395.



SKEEBO
15' x 66" fiberglass boat is available in Utility and Deluxe Utility models, both recommended for use with motors up to 45 HP. Prices: $595 utility, $695 deluxe utility.

●

GLASSPAR CO.
19101 NEWPORT AVE.
SANTA ANA, CALIF.

MARATHON
Molded fiber glass constructed 14' Marathon has ski towing hardware, self-bailing motor well, vinyl upholstery, back-to-back walk-through seats, wrap-around tempered glass windshield and optional folding canvas top. Price, $895.

CITATION
Deluxe 16-footer is designed for fishing, water sports and all-around family use and has 6 individual vinyl upholstered seats with fold-a-way seats in the cockpit. Citation comes with integrally molded fiber glass non-skid inserts on foredeck, non-trip chine, self-bailing motor well and tempered wrap-around glass windshield. Folding top is optional. Price, $1195.

SEAFAIR PHAETON
17' molded fiber glass hardtop has roll-away canvas in forward section. Contains ski towing hardware, running lights and seats 6. Price, $1795.

SEAFAIR SUNLINER
Largest in open deluxe line is the 17' Seafair Sunliner, available with folding canvas top, back-to-back seats, rear quarter seats, and comes equipped with all running lights. Molded side panels form spacious storage compartments. Price, $1595.

●

GLASTRON BOAT CO.
AUSTIN, TEX.

14' SKIFLITE
14'3"x62" sport model, weight approx. 325 lbs. Fiberglass construction. Features windshield, upholstery, steering, rating 40 HP. Price, $645 F.O.B. Austin, Tex., or Madison, Ind.

FIREFLITE
15' Fireflite priced at $895 is just one of a number of boats

offered this year by Standard Glass. Ranging from the 14' Skiflite priced at $645 to the 18' Bayflite priced at $1275, the fiberglass runabouts come in red, aqua, black or white. All prices are FOB Austin, Tex. or Madison, Ind.

STARFLITE
16'4"x77"x37" fiberglass runabout weighs 575 lbs., and is available in either red or aqua color. Price, $995.

BAYFLITE
18'½"x85"x45" fiberglass boat weighs 750 lbs., and is offered in choice of red or aqua color. Price, $1275.

●

GRUMMAN BOATS, INC.
MARATHON, N. Y.

CARTOPPER
A 12'3"x4'1" portable fishing boat with keels and gunwales of solid extrusions and all under water riveting of the flush head type so no heads will shear off when beaching. Up to 5.5 HP should be sufficient to propel this boat. Weight, 87 lbs.

FISHERMAN
14½' (Gunwale Length) Fisherman features a hull arrangement providing space for gas tanks and fishing gear. An optional half-deck arrangement permits forward steering—easy access from bow to stern. Specifically designed for rough waters. Weight—160 lbs. With 15-20 HP the "Fisherman" is capable of towing a water skier. Also car-top boats, canoes, dinghies and other outboard runabouts available.

DELUXE RUNABOUT
15½' deluxe runabout of aluminum weighs 255 lbs., and is recommended for use with

motors up to 40 hp. Three decks are available: open, walk-through, and full center. Accessories include bow seat back rest which converts open-deck model to walk-through type, reversible back rest for stern seat, steering wheel mounted on either port or starboard side of midship bridge, or on forward dashboard, and wrap-around windshields.

G-19 SPORTSTER
19' runabout is of heavy-gauge special aluminum alloy and rigid construction, and rated to carry up to 100 hp (two 50 hp) motors. Boat is available with hardtop, convertible Navy-Top or as open model. All models have reversible bow seat back rests with walk-through arrangement. Boat weighs 750 lbs.

"GC" PLASTIC BOAT
17'x7'x46" boat has one-piece hull of controlled plastic in reinforced plastic-laminate construction, using glass mat, glass cloth and woven roving combined with a fire-resistant polyester resin. Features are one-piece deck, upholstered seats molded in and transom with splash-proof well. standard equipment includes forward hatch, motor well, windshield, mechanical steerer, lifting ring, running lights, chocks and cleats. Hull has modified Vee bottom. Boat seats 6, is recommended for use with motors up to 80 hp.

●

GULL FIBER-PLASTIC PRODS.
BOX 1412, HWY. 10 WEST
MISSOULA, MONTANA

ALBATROSS
18'2"x86"x49" depth amidships, runabout, all fiberglass construction, featuring glass windows, extruded aluminum framing around windshield, aluminum gunwale with rubber inset, full 60" motor mounting transom. Weight approx. 1,195 lbs.

SPRITE
16'3"x85"x43" depth amidships,

Superb Swedish engineering gives you...

THE NEW CONCEPT IN POWER AND MOBILITY FOR YOUR BOAT

1960 Volvo-Penta AQUAMATIC TRANS-MOUNT

1. tilt protection, trailer mobility
2. high-transom safety
3. a counterbalanced transom (no engine bed)
4. steering with propeller
5. compact installation allows more space in your boat

New economy, new performance, new safety. The 1960 Aquamatic Trans-mount power package combines quiet inboard efficiency with outboard versatility and speed. Extremely simple to install in any hull type—wood, plastic, metal, lapstrake—without basic design change. Maneuvers with exceptional smoothness and travels at zoom-away speed . . . hour after hour . . . with amazing fuel economy.

The Aquamatic Trans-mount with Volvo-Penta 80 hp., 4-cycle engine* can make your present or new boat a startling performer. Here is the quality of a fine Swedish marine product backed by the famous Volvo-Penta guarantee and nationwide service. Plan now to get out in front with this versatile power package. Write VOLVO IMPORT INC., 452 Hudson Terrace, Englewood Cliffs, N. J.

*See this Volvo-Penta record-setting BB-70 inboard engine and the complete line of pleasure and workboat diesels at the New York, Chicago, Miami, San Francisco Boat Shows.

DISTRIBUTORS—J. Frank Knorr, Inc., Miami, Fla. • Harrison Marine, Inc., Sarasota, Fla. • Marine Motor Sales & Service, Inc., Point Pleasant, N. J. • New England Marine Corporation, Riverside, R. I. • Woodcleft Marine Base, Inc., Freeport, Long Island, N. Y. • Swedish Motor Import, Inc., Houston, Texas • Wood Marine, Inc., Detroit, Mich. • O. I. Borton Volvo Marine, Minneapolis, Minn. • Apex Marine & Equipment, Inc., Seattle, Wash. • Ray Cokeley Swedish Marine, Oakland, Cal. • Pacific Marine Terminal, Inc., Los Angeles, Cal. • Elfvings Marine & Builders Supply, Coos Bay, Ore. . . . . CANADA—North Sydney Marine Railway Co., Ltd., North Sydney, Nova Scotia • Northern Engine & Equipment Co., Ltd., Vancouver, B. C.

runabout, all fiberglass construction, features inverted V bottom, back-to-back seating. Other details similar to the *Albatross*.

●

HENRY BOAT WORKS
WALDO, OHIO

15' HENRY

15'4" x 74" x 33" custom-built clinker boat weighs approximately 550 lbs. and is equipped with deck and front seat. Price, $595. Optional equipment includes windshield, $85; steering, hardware and floorboards, $75; self-bailing motor well, $75 and ski-hitch, $24.95.

17' HENRY

17'2" x 78" x 35" custom-built clinker boat weighs approximately 650 lbs., and is offered with drain, chocks, cleats, gunwale, banding, complete steering assembly, self-bailing motor well, motor well seats and floorboards. Price, $965. Also available are boat top with side curtains, $99.95; boat top cockpit cover, $24.95; custom seat cushions, $99.95 and wood windshield, $89.95.

●

HULT CRAFT BOAT WORKS
P.O. BOX 673, WAUSA, NEBR.

HULT CRAFT BOATS

Factory built or in kit form, Hult Craft runabouts are available in lengths from 12'6" to 16'7". Price range $740 to $1145, with kits priced from $310 to $498.

●

INDUSTRIAL SHIPPING CO., LTD.
MAHONE BAY,
NOVA SCOTIA, CANADA

PACESHIP PRIVATEER

16'x68"x31". Weight, 528 lbs. Takes up to 50 HP motor. 5-ply molded birch hull. Designed by Maurice Robar. Features wide walk-through center deck, self-bailing well, molded dash. Will attain speeds to 40 mph.

PACESHIP NOVA

16'x64"x31". Weight, 481 lbs. Takes up to 50 HP motor. Designed by Lindsay Lord for fishing. Space for fish tanks provided under thwartship seats. Large locker under port forward deck. 5-ply molded birch hull.

●

INTERAMERICAN STANDARD CORP.
STANDARD BOAT DIV.
10 E. 40TH ST., NEW YORK, N. Y.

SKI-JET

Length 15'6", beam 5'8". Five ply mahogany plywood construction. The Ski-Jet has two launching ramps, each accommodating a skier, which are recessed to the water line and are located on either side of the outboard motor housing. Skiers start and finish without dunking. The Ski-Jet makes water skiing more accessible and easier to learn. Features include two standard winches, windshield, handrails and safety padded dashboard.

●

KAUFFMAN BOAT WORKS, INC.
U. S. 41
OSPREY, FLA.

8' HALF PINT

8' x 4' x 23" boat is equipped with wraparound windshield, steering, deck hardware and seat cushions. It is recommended for use with motors from 7½ to 12 hp.

TERN 14 CONVERTIBLE

14' x 70' x 33" convertible has plywood construction mahogany frame, and is equipped with two bailers, wraparound windshield, convertible top, deck hardware, installed steering, and removable upholstery. Price: $585.

ALBATROSS 16

16' x 80" x 40" boat is available in both convertible and day cruiser models, and has plywood construction over mahogany frames and double-planked bottom at points of impact and stress. Boat is recommended for use with motors from 35 to 50 hp. Equipment on convertible includes flush cockpit floor, 20" wraparound windshield, convertible top, installed switches and steering, and removable upholstery. Day cruiser features cabin hatch, chair-height bunks, mattresses and twin folding pilot seats. Prices: convertible, $833; day cruiser, $1,064.

OSPREY 19

18'4" x 90" x 49" boat is available in three models, family cruiser, fisherman and overnighter. Construction is of marine plywood over mahogany frames and features extreme deep Vee with concave sections carrying all the way aft. Cruiser has steering, lights, hardware, mattresses, toilet, galley stove, two pilot seats, top, side curtains, stern cover and motor wells. Prices: family cruiser, $2,470; fisherman, $1,475 and overnighter, $1,650.

●

KENWAY BOATS
PALERMO, ME.

KENWAY KOMET

Runabout with mahogany plywood hull and decks, upholstery, brass and copper fastened, chrome hardware, reinforced transom. Semi-round bottom construction. 14' model takes 15-40 HP, price $595; 16' model takes 15-50 HP, price $750.

KENWAY BOATS

Kottager is a family boat in 14' and 16' sizes, for 5-35 HP, $395 and $495; Fisherman also in 14' and 16' sizes, for 10-40 HP, $535 to $645; all boats have same features as Komet. Accessories include steering equipment ($38.50 up), custom canvas covers ($42.25 up), windshields ($35.95 up).

●

LAKEMASTER BOATS
8430 MIDDLEBELT RD.
GARDEN CITY, MICH.

17' ELDORADO

The 1960 Eldorado model has a beam of 78" and a depth of 38". Speed and safety are featured in this runabout constructed of 6 ply molded mahogany, with planked decks. High-riding quality proves ideal for water skiers. Price $1495 complete including power steering. Lakemaster offers a number of boats for 1960, ranging from the 11' Imperial to the 19' Islander.

●

LONE STAR BOAT CO.
P.O. BOX 1050
GRAND PRAIRIE, TEX.

MONTEREY

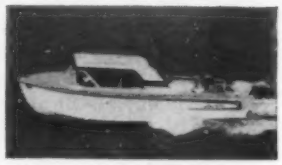
15' fiberglass runabout has variety of seating options available. Standard equipment includes windshield, complete steering and rigging, fiberglass beam structured double bottom with built-in flotation and full-width transom splash shield. Boat is recommended for use with motors up to 40 hp.

FLAMINGO

15' fiberglass runabout has windshield, complete steering and rigging, glass beam structured double bottom with built-in flotation and aluminum docking rail with rubber bumper insert. Variety of seating options is available. Also available is 15' aluminum Newport, featuring flat floor with double bottom construction.

BERMUDA

16' fiberglass runabout features open 96"x72" cockpit with room for eating or sleeping aboard. Upholstered back-to-back seats (accessories) convert to 6' bunks, with other seating options available. Standard features include windshield, complete steering and rigging, glass beam structured double bottom with built-in flotation and hinged bow hatch. Boat is recommended for use with motors up to 80 hp.



BAR HARBOR

18' fiberglass cruiser has cabin and cockpit interiors with mahogany trim, galley with sink, bunk cushions and folding transom seat, with self-bailing motor well permitting full tilt of all motors. Storage compartment under well provides space for gas tanks and battery. Cabin is semi-enclosed.

CRUISE LINER

23' aluminum outboard cruiser features twin 2'x7' berths, galley assembly with sideboard, sink and water pump, toilet compartment, sliding cabin windows, watertight screened portholes and padded transom seat.

●

LYMAN BOAT WORKS, INC.
1627 FIRST ST., SANDUSKY, OHIO

13' OUTBOARD

13'3"x60". Resembles the open 15' model, and can be equipped with the steering wheel mounted on the amidship deck; starboard side of the walk-through. Designed for motors up to 30 HP, it has, like its 15' sister outboard, easily removable floor boards and is completely varnished on the inside.

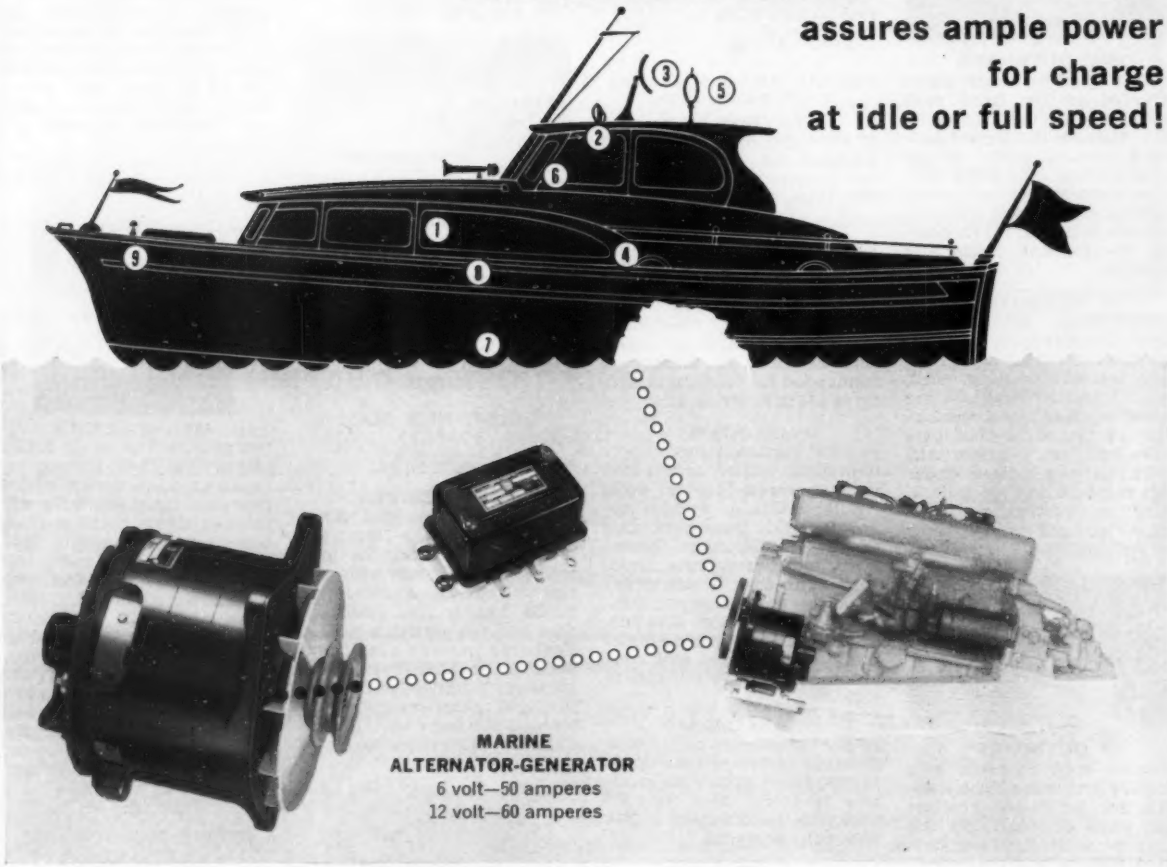
15' OUTBOARD

15'4"x67". Steering wheel mounted in forward cockpit.

Your best solution to marine battery charging problems...

LEECE-NEVILLE ALTERNATOR-GENERATOR

assures ample power for charge at idle or full speed!



Now available is the first generator designed to fill the needs of modern marine battery charging problems! With this new Leece-Neville marine alternator-generator, you can have ample D.C. output—operating from power take-off on main engine—for charging amperes at engine idle and at top speeds. At the same time you have all the power you need for low voltage battery-powered accessories such as listed at right.

This corrosion-treated alternator-generator features built-in silicon rectifier and totally enclosed slip ring design for safe, sparkless, trouble-free operation. System includes companion double-contact regulator. Auxiliary mounting is possible for easy installation. L-N alternator-generators are suitable for use on any boat with inboard power.

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The Leece-Neville Company, Dept. PB-2
Cleveland 3, Ohio

Please send name and address of nearest marine alternator dealer.

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Uses motors up to and including 45 HP. Available as open or as stern deck model with removable panel for storage. Accessories available: windshield (fixed or ventilating), folding top with snap-on side curtains.

16½' OUTBOARD
16'7"x70". Steering wheel mounted on the front dash and walk-through amidship deck. Handles the biggest outboard motors built. Accessories include windshield, curtains, sport model top, and a recessed motor well with removable bulkhead for concealing the gasoline tanks and batteries.

17' OUTBOARD
17'x77" beam, 32" amidship depth. Stowage space in locker and two compartments. Stern deck, self-bailing motor well, and 15" and 20" transom are available. Stern seat and backrest are hinged so that batteries and five 6-gallon fuel tanks may be stowed under both the seat and stern deck. Fixed or ventilating windshield, top and side curtains are optional.

18' OUTBOARD
Features split backrest with hinged opening in center, compartment for 25-gal. gasoline tank (tank optional), gas line equipped with standard outboard fittings, and permanent top of 5-ply molded reinforced Philippine mahogany, with or without sliding hatch. Boat uses single motor up to 65 hp or dual motors up to 45 hp.

●

MARLIN FIBERGLASS BOAT CO.
BOCA RATON, FLA.

MARLIN SCAT-CAT CATAMARAN
This twin hull, all fiberglass outboard has an overall length of 14' and beam of 7'8". May be powered with single or dual motors. Optional top, side and end curtains. Seats fold to bunks. Sleeps four, seats 8 persons. Price, $1,495 FOB.

MARLIN PANTHER
15' all fiberglass hull designed for superior high speed performance. Three models are offered ranging in price from $845 to $895 FOB.

●

MILCO TANK & BOAT CO.
WHITE PIGEON, MICH.

PLAYBOY PB-2
12' x 52" aluminum runabout is designed for youngsters and can be used with motors to 12 HP. Price, $239.

SWANETTE S-2
12' x 48" flat bottom fishing boat has aluminum construction, two-piece welded hull, formed aluminum seats, Styrofoam flotation, rope cleat, pulley, handles and oar horns. Boat weighs 92 lbs., and is recommended for use with motors up to 5½ HP. Price, $159.

SKI-KING
14' x 63" runabout has aluminum hull, welded seams and walkthrough center deck. Available with or without upholstery, boat takes motors up to 40 HP. Standard equipment includes syphon drain, aluminum cast handles, extruded spray knocker and gunwales. Styrofoam flotation. Also available are prams, duckboats, utility boats and runabouts 9' to 14'. Prices, $139 to $399.

SWANLINE A-4
14' x 63" aluminum utility with flotation is for motors up to 18 HP. Price, $339. Also available is Model M-4, 14' x 56" utility for motors up to 15 HP. $269, fully equipped.

●

MIRRO ALUMINUM CO.
MANITOWOC, WIS.

MIRRO-CRAFT ALUMINUM BOATS
72" beam, 16' length, 20" transom depth, 32" maximum depth. Boat features rounded one-piece aluminum keel, Styrofoam flotation, triple-braced transom for twin motor installation, longitudinal keelsons and welded aluminum hull. Boat can be used with motors from 17 to 75 HP and can develop speeds over 30 mph. Price, $925.

CAMP 'N CRUISE
16' aluminum runabout features front upholstered seat. Prices: $765-$975. Also available is company's new Ski 'n Troll, with back to back upholstered seats. Prices: $850-$995.

●

MITCHELL BOAT CO.
DIV. CONSOLIDATED METAL PRODUCTS, INC.
BOX 63, ELKHART, IND.

14' LITTLE MITCH
The Little Mitch features one-piece aluminum hull, two upholstered seats, hardware and lights. Price $450. Mitchell aluminum boats come in 10' to 14' sizes and range in price from $179 to $575.

●

MOLDED FIBER GLASS BOAT CO.
55 4TH AVE.
UNION CITY, PA.

MFG 13' SERIES
12'8"x61½"x28" molded fiberglass boats have lapstrake hulls and are available in 3 models, each for use with motors up to 35 hp. The Carefree model has a new fiberglass deck and top weight is 325 lbs. Features include aluminum keelsons, molded-in ribs and transom, positive foam flotation and rubber-mounted suspension for front seat. Prices: Carefree, $425; Suburban, $395 and Utility, $345.

MFG 15' SERIES
14'10"x68"x30½" outboard boat is available in 4 models and can be used with motors up to 50 hp. Weight is 450 lbs. Features include molded fiberglass lapstrake hull, fiberglass decks on 3 models, positive foam flotation, new "easy ride" front seat, aluminum keelsons. Prices: Oxford, $665; Waterford, $625; Floridian, $665 and mahogany-decked Celoron, $625.

MFG 17' SERIES
16'6"x80½"x41" matched metal die molded fiberglass boats with lapstrake hulls are available in 3 models, a hardtop and 2 runabouts. All have fiberglass decks and can be used with motors up to 100 hp.

Features include molded-in transom and fiberglass ribbing, aluminum keelsons, positive plastic foam flotation and rubber-mounted suspension system for front seat. Prices: Albion, $895; Edinboro, $920, and Northeast Hardtop Deluxe, $1175.

MFG 19' SERIES
19'3"x87¾"x37½" cabin cruiser and 18'10"x85"x42" hardtop and runabout have double-bottom fiberglass lapstrake hulls with positive plastic flotation filling space between hull and floorboards. Deck, gunwale, self-bailing motor well and cabin superstructure are all fiberglass, and boats can handle twin high-power outboard installations. Cruiser accommodations include 2 bunks, galley with sink, cooler and stove, and marine head. Prices: Seaway Runabout, $1375; Seaway Hardtop, $1675, and Seaway Flying Bridge Cabin Cruiser, $2350.

●

MOLDED PRODUCTS, INC.
BOX 117, COCKEYSVILLE, MD.

16' WHIRLWIND
In the 16' Whirlwind, selected mahogany veneers are carefully shaped to hull mandrels, with each layer at right angles to the one below it for greater strength. The veneers are bonded into a one-piece hull by cooking under heat and pressure. Features Epoxy paint which bonds permanently to the hull. A complete line of boats are offered from the compact Comet 13 to the luxurious Jupiter 20 Cabin Cruiser.

JUPITER 20 WHIRLWIND
The Jupiter 20 Cabin Cruiser is fully equipped with bunks for three, enclosed head, galley, sink, flying bridge, pilot seat, and many other appointments. Optional equipment includes fabric top, opening windshield and permanent gas tanks. Price, $2,475.

●

MONTGOMERY WARD & CO.
618 W. CHICAGO AVE.
CHICAGO 7, ILL.

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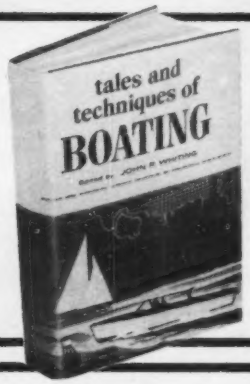

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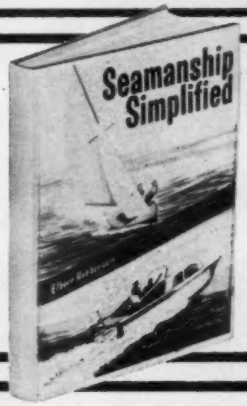

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runabout has a gunwale length of 16½′ with a 72″ beam. Rated for 75 hp, it has 2 seats fully upholstered and features clipper bow, deluxe steering, hardware, and fittings. One of the most popular of Ward's 40-boat line, which ranges from a 9′ dinghy to an 18′ cruiser. Price, $995 FOB Chicago.

●

MOSER FURNITURE CO.
409 FIFTH ST., LYNCHBURG, VA.

MOCRAFT RUNABOUT
16′ rough water family runabout for fishing, skiing, cruising. Beam 69″. Features side seats, motor mount, molded Honduras mahogany hull. All seats removable for cleaning of boat. Four other models also available, 14′-18′. Also manufacturer of "Moflyte" water skis.

●

NIPISSING BOAT CO. LTD.
SSI, SITE 14
NORTH BAY, ONTARIO, CANADA

SEABREEZE CONVERTIBLE
Length 18′, beam 6′2″. ⅜″ cedar strip construction and fiberglassed to splashrails with 6′ deck and watertight hatch and reinforced transom. Recommended horsepower, 70. Nipissing Boat Co. offers a complete line of sturdy boats ranging from a 13′ Sportsman to the Monterey Cruiser, a 22′4″ cabin cruiser.

●

N-VEE CO., INC.
1538 PLACENTIA AVE.
COSTA MESA, CALIF.

SKEE VEE
Features long forward deck, pilot's position forward, walk-through center deck, jumper seats facing aft for skier observers. Reinforced oak members, heavy transom construction. In two lengths, 14′, $560; 16′, $720. Construction materials: Royal Marine plywood, Philippine mahagony and oak completely fiberglassed.

FLYING DUTCHMAN
15′ marine fir plywood "H" class runabout is available in two models: for family use with mahogany full center deck walk-through and mahogany observer seats facing aft and for competition or sports use with fiberglass molded and upholstered bucket seats forward and walk-through and observer seats facing aft. Price: $680, fiberglassed, resinized and painted.

PANASKEE
16′ runabout of marine fir plywood is available finished, unfinished, sanded ready for glass and paint or glass-covered only, sanded ready for painting. Price: $785, fiberglassed, resinized and painted.

PANCRUISER
19′ outboard cruiser can be used with single or twin outboard power, or factory recommended inboard installation. Boat sleeps 3, and features include storage compartments, forward hatch, sliding side windows, ice box compartment and provision for head and galley. Cabin top is molded fiberglass, hull is marine fir plywood. Price: $1695, fiberglass-covered exterior and resinized interior.

●

GEORGE O'DAY ASSOCIATES, INC.
9 NEWBURY ST.
BOSTON 16, MASS.

HUNTER 19
Centerline length 15′11″, beam 77¾″, weight 610 lbs. Transom height 21¼″. Fiberglass runabout is priced at $1,195.

●

OLD TOWN CANOE CO.
OLD TOWN, ME.

SPORTBOAT
12′ long, 48″ beam, depth amidships 17″, width stern 43″, approx. weight 98 lbs. About the same weight range as large canoes. Generally a motor of 2 to 8 HP is used. Ribs and planking are of cedar, trimmings of mahogany, oarlocks, half ribs, painter ring and fastenings of brass. Canvas cover extra. Price, $239.

LAPSTRAKE "16"
Made with planking of ½″ thick red cedar, brass-fastened to ribs and frame of ash. Gunwales, transom and deck are of mahogany. Motors recommended 5 HP to 40 HP. An all-purpose boat constructed to meet severe weather conditions. Waterproof cover extra. Dimensions: 15′8″ long, 75″ beam, 58″ wide at stern, 38″ high at bow, 32″ depth amidships, and wt. approx. 350 lbs. Price, crated $925.

OLD TOWN LAPSTRAKE 18
Lapstrake construction is feature of this outboard runabout, which can deliver speeds up to 20 mph with 18 HP motor. Boat is 17′ long, with transom cut 20″ high with self-bailing motor well for single engine. It is fully equipped, and weighs approximately 800 lbs. All chrome hardware is used, and has walk-through front seat. Price, $1,565. Also available is winter storage cover, $60.

LAPSTRAKE "20"
Made with red cedar planking ½″ thick which is brass-fastened to ribs and frame of ash. Mahogany gunwales, transom and deck. An all-purpose boat made to withstand severe weather conditions. Waterproof cover extra. Price, $1,765.

●

ORLANDO BOAT CO.
501 ELWELL ST., ORLANDO, FLA.

MODEL 56-14-ZEPHYR
14′3″x68″x30½″ aluminum outboard boat. Transom depth is 15″, maximum transom width 56″.

ALUMINUM BOATS
16′x73″ Fisherman is one of line of aluminum boats offered from 12′ through 16′, in open utility models and front-seat steering deluxe runabouts. 15′ Rapier has enclosed motor compartment and rear seat with full-width seat back, while 16′ Camper is equipped with 2 canvas and tubing bunks which can be dismantled and stored when not in use. Camper also has complete canvas enclosure. Prices, 16′ Nomad, $920; 16′ Camper, $1,055; 15′ Standard Rapier, $695; 12′ Speedster, $465.

17′ RAMBLER OVERNITER
17′x85″ fiberglass overniter is available in 2 models, both sleeping 2. Features include hatch, chrome running lights, hardware and lift rings. Optional equipment includes hard or convertible tops and molded-in rear-facing seats. Complete line of trailers is offered also.

●

OWENS YACHT CO., INC.
BALTIMORE, MD.

17′ CRUISETTE
The Futuristic Series and the Traditional Series are offered in a choice of color combinations. The Cruisette has built-in flotation, ventilating windshields, two fiberglass cabin berths, cabin bulkheads and a wooden cockpit floor. Available with a flying bridge windshield. Easily trailered and has ample storage space.

15′ SPORTS RUNABOUT
Fiberglass construction of the Sports Runabout make it a sturdy boat priced at $685. Optional equipment of steering, deck hardware and windshield, $111.

17′ FISHERMAN
Ideal for fisherman, this fiberglass constructed boat is priced at $1065. Optional equipment of steering and windshield, $102.

17′ DELUXE RUNABOUT
All Owens 17′ fiberglass boats are available in the Futuristic Series and the new Traditional Series (the finless design). The Deluxe Runabout is offered in a choice of color combinations with vinyl upholstered front and rear seats and walk-through seat back. Features built-in flotation, self-draining motor well, through transom hull drain and fiberglass front seat foot rest and remote control panels mounted on both sides and built-in rear deck with hatch. Available with auto type steering wheel with cable controls mounted through dash. A number of models and designs are offered in the 15′ and 17′ lengths.

●

PARSONS CORP.
LAKE 'N SEA DIVISION
P.O. BOX 112
TRAVERSE CITY, MICH.

ARROWHEAD
16′x77″x35¼″ all-fiberglass runabout has molded-in front seats with arm rests and fold-out jump seats; molded-in aft deck with self-bailing motor well, tilting and removable stern seats, and foam and air cell flotation. Boat can seat 5 to 8 persons, has maximum capacity of 1280 lbs., and is

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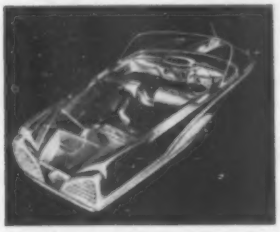
rated for use with motors to 75 hp. Price: $1495. Also available are 15′ Biscayne Utility, $895, and 18′ Saratoga Custom runabout, $2195.



14′ CARIBBEAN RUNABOUT
14′x68″x32″ depth. Caribbean Runabout of fiberglass construction features molded-in forward seat; divided aft seat designed so that either half may be tilted forward; molded-in arm rests; sealed self-bailing motor well; foam and air cell flotation; double bottom. Capacity 780 lbs. Seats four to six persons. Rated to carry up to 45 HP. Price, $1,095 F.O.B. factory.

●

PARTEE BOAT MFG. CO.
104 COLES FERRY PIKE
LEBANON, TENN.

MODEL 14 DCET DELUXE CELEBRITY
14′2″ x 68″ x 30″ Philippine mahogany molded marine plywood boat has three mahogany decks with walkthrough center deck, convertible top and 18″ wraparound plexiglass windshield, remote steering controls installed and rubberized filled seat backs and cushions covered with Naugahyde upholstering and steering wheel. Price, $1,050. Also available is Model 16 DCET, 15′10″ x 70″ x 32″ runabout with similar equipment. Price, $1,100.

MODEL 14 CE CELEBRITY
14′2″ x 68″ x 30″ Philippine mahogany molded marine plywood boat is recommended for use with motors to 100 HP. Boat seats 6, and standard equipment includes three mahogany decks with walkthrough center deck, 15″ wraparound plexiglass windshield, remote steering controls installed, rubberized filled seat backs and cushions covered with Naugahyde upholstering and steering wheel. Price, $950. Also available is Model 16 CE, 15′10″ x 70″ x 32″, with similar equipment. Price, $1,000.

MODEL 14 V VIKING
14′2″ x 68″ x 30″ Philippine mahogany molded marine plywood boat is recommended for use with motors to 100 HP, and seats 6. Equipment includes three mahogany decks with walkthrough center deck, 15″ wraparound plexiglass windshield, steering wheel, and rubberized filled seat backs and cushions covered with Naugahyde. Price, $800. Also available is Model 16 V, 15′10″ x 70″ x 32″, with similar equipment. Price, $850.

●

PEARSON CORP.
BRISTOL, R. I.

MARINER
15′ fiberglass open cockpit runabout - fisherman. 3 Seats. Price, $499.

MATE
15′ all fiberglass molded runabout. Steering wheel, windshield, upholstered seats fore and aft. Price, $595.

PEERLESS CHALLENGER
21′ fiberglass open-cockpit, heavy duty sports fisherman is available for use with either outboard or inboard power installations. It is offered either as all-fiberglass model, or with mahogany decks. Head is forward, and selection of optional equipment is available. Prices, from $1995.

●

PENOBSCOT BOAT WORKS
ROCKPORT, ME.

19′ PENBO SEA-O-RAMIC
19′ open runabout features include brass and chromed hardware throughout, African mahogany with piano finish, US Royal Marine plywoods and a native oak frame, with solid transom and wide-diameter Everdur bronze screws in bottom to allow use of largest power heads. Boat is also offered in 17′ model. Other boats available include Cruise-O-Ramic hardtop and a new sport fisherman with pulpit, outriggers, fish and bait boxes and all fishing equipment, with both boats featuring similar construction to Sea-O-Ramic.

●

PERE MARQUETTE
FIBERGLAS BOAT CO., INC.
SCOTTVILLE, MICH.

CARTOP
10′ x 46″ fiberglass boat weighs 95 lbs., and is recommended for use with motors up to 5 HP. Price, $235.

VACATIONER
Fiberglass boat is available in three sizes: 12′ x 51″; 14′ x 54″ and 16′ x 57″. Models are recommended respectively for use with 7.5 HP, 15 HP and 25 HP motors. Prices, $329; $349 and $379.

●

PERFORMER BOAT CORP.
14720 LAKEWOOD BLVD.
BELLFLOWER, CALIF.

PERFORMER T-BIRD
14′x70″x30″ depth x 56″ beam at transom. Fiberglass runabout with 48″ deck and cockpit designed for fishing, skiing and family use. Features separate well for motor and gas tanks, gear, etc.

PERFORMER SPORTSMAN
15′x72″x36″ depth x 55½″ beam at transom. Fiberglass run about similar to the T-Bird described above, but with a 60″ deck and more space for heavier loads.

PERFORMER SEVEN SEAS
18′x86″x50″ depth x 70″ beam at transom. Fiberglass cruiser with 80″ cockpit, 80″ cabin, 66″ x28″ motor well, and an overall height of 78″. Details on request. Price, Deluxe, $1,890; Special model, $1,490.

VIKING 18′ DELUXE
18′ outboard is recommended for use with single or dual installations up to 90 hp. Boat is of fiberglass.

●

PERSLEY-RIEHL MFG. CO.
PORT CLINTON, OHIO

WAVEMASTER DELUXE
14′ steel sports model uses 3 to 30 HP. Price, $348.50; Standard Model, $276.35. Also available, 16′ Deluxe and Standard models that use 10 to 40 HP.

21′ CLINTON HULL
Made of 13-gauge steel. Beam 92″, depth forward 52″. Price, $1075. Also available in 24′.

CLINTON UTILITY
14′ all-purpose steel model uses 2-20 HP. Price, $166.50. Also available in 12′ and 16′.

CLINTON UTILITY V-BOTTOM
14′ for fishing and hunting. Features two air tanks to prevent sinking and handles for carrying. Uses 2-20 HP. Steel construction. Price, $224.50.

CLINTON SKIMMER
14′ for fishing, commercial, and other inland use. Rigid steel construction. Price, $176.50. Also available in 12′ and 16′.

●

PILOT GROVE BOAT CO.
PILOT GROVE, MO.

PILOT 14 SERIES
13′7″ x 70″ x 36″ fiberglass boat has air chamber flotation, and automotive-type stationary upholstery. Boat is available in three models, Super Deluxe, Custom Deluxe and Custom Cruise 'N Ski. Super Deluxe equipment includes side panel upholstery, rubber floor matting, front and rear seats, full motor well, enclosed storage compartments, flat floors. 17″ windshield and steering gear. Prices, Custom models, $749.50; Super models, $895.

PILOT 16 SERIES
15′7″ x 70″ x 36″ fiberglass boat is available in four models, all recommended for use with motors from 35 HP to 70 HP. Super deluxe model has front and rear seats, full motor well, 17″ windshield, steering gear and flat floor with storage shelf under the deck. Also available are Super Cruise 'N Ski, Custom Deluxe, and Custom Cruise 'N Ski. Prices, Custom models, $959.50; Super models, $979.50.

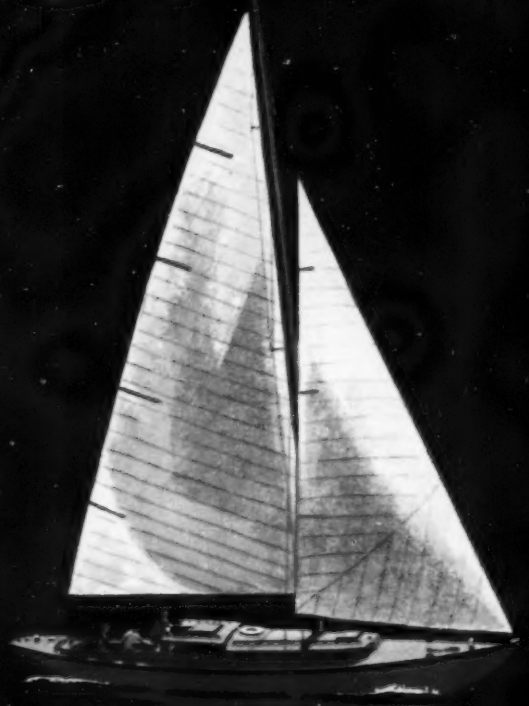
●

PLASTIC FABRICATIONS, INC.
605 W. 25TH ST.
HIALEAH, FLA.

THUNDERBIRD HIAWATHA
24′4″x8′x60″ fiberglass boat features sealed double-bottom chamber housing longitudinal stress units, and transom for one or two long shaft engines of unlimited hp. Standard equipment includes hatch, installed steering assembly, marine toilet, 9 gal. water tank, galley water pump, sink, 2-burner alcohol stove, ice box, two 25 gal. fuel tanks, full opening windshield, folding helmsman seat, foam cushions for all berths and sliding plexiglass windows in sedan cabin. Price, $5825.

THUNDERBIRD MIAMI
18′10″x8′x48″ fiberglass boat has sealed double-bottom chamber housing longitudinal stress units, and transom for one or two long shaft engines up to 80 hp each. Standard equipment includes hatch, top and side

Imagine !



Your boat painted with Polypoxy SHIPENDEC !

by **PETTIT**, of course ⇒

Why Pettit Makes Different Anti-fouling Bottom Paints

Every boat kept in the water long enough to accumulate any type of marine growth needs anti-fouling paint protection on the bottom. The time required for growths to appear and the variety of attachments vary greatly with temperature, salinity and local fouling conditions.

But the end result is always the same: Your boat is slowed down and the bottom is unsightly. In some cases borers and worms can seriously damage the hull.

Because of these variations, Pettit offers a wide selection of bottom paint formulations.

If you haul your boat out frequently, or scrub it down often, our hard racing finish with minimum anti-fouling action may be best for you.

If you moor in cool waters that support only light marine growth, one of our more economical paints may offer sufficient protection.

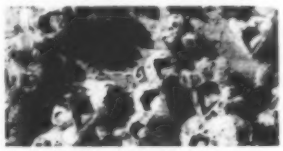
But, if your boat is regularly in warmer waters where fouling conditions are severe, your boat needs our top-grade anti-fouling marine paint to keep it clean and free of damaging worms!

Check with the Pettit dealer in your area—he'll know the right product for your local conditions.

How to Care for Fiberglass

After a season or two most molded fiberglass boats lose their gleaming new finish even with "integrated" color. Then, too, the hull becomes scratched and stained and is impossible to clean. However, you can make it look new again! An application of Pettit's Polypoxy will do the trick. And, because Polypoxy's finish is exceedingly hard and smooth, your newly painted craft will be much easier to clean and more resistant to abrasion.

This is work of Teredo. He gains entrance at smallest unprotected spot.



Barnacles, like these, cling to unprotected bottom, slows vessel.

A Word About POLYPOXY

Polypoxy is Pettit's new (introduced last year) miracle paint combining the best scientific combination of epoxies for specific marine use. It is perfect for fiberglass, plywood and planked hulls, and aluminum boats. It can be used for salt and fresh water. All Polypoxy paints are packaged in two cans — one the base and the other the hardener. **It's easy as pie to apply!** A folder describing its many advantages is available at your dealer.

Hull and Deck Paints Protect Your Investment

Sunlight, water and dirt destroy wood, causing it to rot, swell and buckle. That's why yearly topside painting with Pettit is more than a boat's beauty treatment: it's the best way to protect your investment.

Pettit's Shipendec, Small Boat Paints, and Polypoxy seal out these destroyers—and all three lines offer a broad range of magnificent colors. In addition, all these paints are carefully blended to provide adhesion and to resist abrasion and sunlight. Why not try Pettit's "Beautiful Protection" on your craft this season?

Two Reasons Why Aluminum Boats Need Paint

SUNLIGHT — An aluminum boat can become mighty hot in the sunlight; also, the glare can hurt the eyes. Pettit's Shipendec or Small Boat paints on hull and deck can reduce glare and heat absorption; make your boat cooler, more comfortable and more beautiful, too.

CORROSION — Aluminum corrodes, especially at seams and rivets. This occurs particularly in salt water, but it also happens in fresh water. Pollution accelerates the action. Pettit formulates special paints to stop this corrosion. For an anti-fouling finish use our Vinyl Metal Primer, Vinyl Red Undercoater and a top coat of Alumacide Green. For salt and fresh waters that are not as severe, and for trailored boats, use our Alodine 1200 etch and then apply Polypoxy. Or you can use our Zinc Chromate Primer and then one of our regular enamels. Consult the Pettit dealer in your area; he'll have the right materials on hand for the conditions in your own territory.

COMPOUNDS

Pettit marine compounds are formulated and manufactured with the same skill and care as Pettit paints. Everything needed for bedding, double-planking, surfacing, glazing, and filling is available in the Marine Specialties line—and they are designed for use with Pettit paints. Close quality control and continuous improvement of these products assure you of good results. Compounds are the *foundation* of a good finish on your boat —why not use the best obtainable?

PETTIT

marine paint

ESTABLISHED 1861

Belleville, N. J.—San Leandro, Calif.

curtains, steering assembly, cockpit cover, alcohol stove, spring seat cushions, bunk cushions, Port-O-Biff toilet, safety well and chart holder table and compass. Price, $3195. Also available is Thunderbird Scout, with same dimensions, $2695.

THUNDERBIRD APACHE

20'x7'11"x52½" fiberglass boat has sealed double-bottom chamber housing longitudinal stress units, and transom for one or two long shaft engines up to 80 hp each. Standard equipment is hatch, steering assembly, top and side curtains, cockpit cover, alcohol stove, 9 seat and bunk cushions, Port-O-Biff toilet, safety well and molded-in galley sink. Price, $2775. Also available is Thunderbird Comanche, same dimensions, $2475.

THUNDERBIRD BLACKHAWK

18'3"x7'9½"x45" fiberglass boat has sealed double-bottom chamber housing longitudinal stress units, and transom for one or two long shaft engines up to 80 hp each. Standard equipment includes hatch, full cabin bulkhead, Port-O-Biff toilet, windshield, folding helmsman seat, complete steering assembly, bunk cushions and safety well. Price, $2295. Also available is Thunderbird Cherokee, same dimensions, $1895.

THUNDERBIRD GERONIMO

15'x6'3"x34½" runabout is of fiberglass and has sealed double-bottom chamber housing longitudinal stress units, and transom for one engine up to 80 hp, or two engines up to 40 hp each. Equipment includes upholstered front seat, windshield, complete steering assembly and remote control brackets. Price, $895. Also available is Thunderbird Brave, same dimensions, with transom for long shaft engines up to 40 hp, with short shaft optional. Price, $630.

●

POLAR KRAFT MFG. CO.
1237 N. WATKINS, MEMPHIS, TENN.

MODEL S-1418

13'11" runabout with aluminum welded hull and styrofoam flotation. Bottom 36", Beam 54", recommended HP 18. Price, $239.

SKI-KING

The Ski-King 14 and 16 are new, fast, aluminum runabouts with Styrofoam-filled seats, windshield and steering supplied as standard equipment. Overall length is 13'6" and 15'6" respectively. Both models have a beam of 65", transom beam 60", depth amidships 30"; 15" or 20" transom heights available. Power recommendations to 60 HP. Prices, Zephyr 14 $675, Ski-King 16 $825, F.O.B. Memphis, Tenn.

●

POMPANO BOAT CO.
POMPANO BEACH, FLA.

OFFSHORE 18

18' runabout with over 6 sq. ft. cockpit, two storage seats, and 7' bunks. Plywood planked. Will give 25 mph with single 35-40 HP motor, and can handle 2 motors to 100 HP. Features sound-deadening motor well, hardware, lights, plastic overhead, top, windshield, deluxe steering installed, mahogany framing, concealed fuel storage. Price, $995. Offshore 20, with two-foot longer cockpit, $1,195.

RUGGED SIXTEENS

16' runabout that delivers 30-35 mph with one 35-40 HP motor. Features solid mahogany framing, hull planking, of Harborite marine plywood, durable construction. Available in choice of colors and seating arrangements from $395 to $460.

●

POWER CAT BOAT CORP.
13512 SOUTH LAKEWOOD BLVD.
BELLFLOWER, CALIF.

18' POWER CAT RUNABOUT

Length 19'6", beam 96". Wt. 900 lbs. The 18' Power Cat Fiberglass Open Runabout features a spacious cockpit and gives speeds to 40 mph with twin 40 HP engines.

30' POWER CAT CABIN CRUISER

One of the largest stock production boats ever made for outboard power. Construction is fiberglassed plywood and mahogany. Equipped with twin engines, boat will deliver 30 mph. Sleeps 6 and has a complete galley and dinette. Flying bridge is equipped with hydraulic steering. Price, $12,000-$13,000 including twin Mercruy 700 motors.

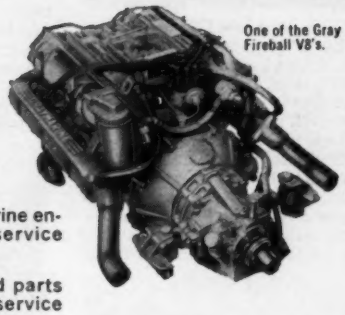
●

PROGRESSIVE PLASTIC PROD., INC.
MARINE DIVISION
4533 S. FLORES
SAN ANTONIO 4, TEXAS

JAVELIN

15'4" x 71" fiberglass runabout features reinforced double bottom, 12 cu. ft. of flotation, molded-in spray control, non-trip chines and "pop-free"

WHY DO INDEPENDENT BOAT BUILDERS USE MORE GRAYMARINE ENGINES THAN ALL OTHER MAKES COMBINED?

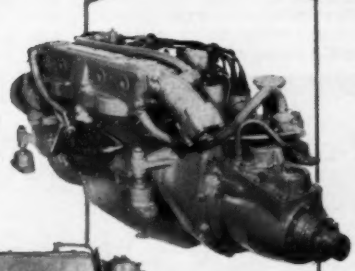


One of the Gray Fireball V8's.

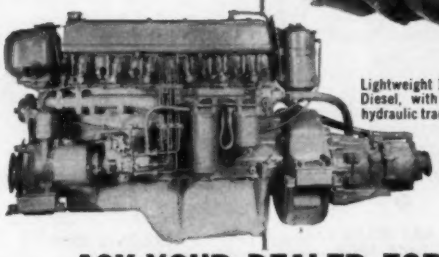
... BECAUSE IN GRAY YOU GET:

- World's finest marine engine sales and service organization
- Factory-approved parts and authorized service everywhere
- Most liberal warranty policy in the industry
- From 1906 to 1960, constant, aggressive improvement
- Unsurpassed simplicity and ease of installation

... IN SHORT, ALL THE THINGS IT TAKES TO MAKE GRAY ENGINES FIRST CHOICE OF BOAT OWNERS



The popular Gray Model 109, with hydraulic transmission.



Lightweight 130 hp. Gray Diesel, with heavy-duty hydraulic transmission.

ASK YOUR DEALER FOR GRAYMARINE POWER

GRAYMARINE

GRAY MARINE MOTOR COMPANY
710 CANTON AVENUE • DETROIT 7, MICHIGAN

steering cable installation. Upholstered seats are made of Naugahyde covering foam urethane cushioning, and rear seat is removable. Prices, from $412 to $995.

●

SEARS, ROEBUCK & CO.
925 S. HOMAN AVE.
CHICAGO 7, ILL.

12′ FISHERMAN
The 12′ Fisherman weighs only 85 lbs. and is ideal for car top. Hull is of high strength, high temper aluminum. Contains built-in styrofoam under seats, three roomy seats. Beam 48″. HP up to 7.5. Sears, Roebuck & Co.'s boat line consists of 26 fiberglass, wood and aluminum boats plus three canoes, two sailboats, four inflatable boats and three pontoon rafts.

FIBERGLASS FISHING BOAT
Length 12′, beam 56″. Fiberglass construction. Three seats. Recommended horsepower, 12. Weight 145 lbs. Flotation, balsa wood floor completely encased in reinforced plastic. Storage room under seats for tackle boxes and other gear.

14′ RUNABOUT
Length at center line, 14′2″, beam 66″. Recommended HP, 40. Forward deck length 61″. Fiberglass construction. Standard equipment includes plexiglass windshield, chrome hardware, running lights, air flotation tanks, 2-tone upholstered seats, plus many more.

●

SHELL LAKE BOAT CO.
SHELL LAKE, MICH.

VAGABOND
15′11″x6′8″x39″ utility runabout is rated for use with outboard power up to 85 hp. Boat weighs approximately 710 lbs.

DART
16′ Shelglas-molded runabout has walk-through front seat with divided backrests, rubber bumper around entire boat and molded spray rails. Accessories are available. Boat is also offered in 14′ model.

ROCKET
16′x68″ runabout is of Shelglas, and features flared bow, tail fins, indented "carry-all" pocket behind windshield, and "Relax-o-matic" front seat construction. Equipment includes 18″ windshield, hardware, upholstery and installed steering. Boat is also available in 14′x63″ model without "Relax-o-matic" seat, but with other equipment.

LAKEWAGON
19′10″ gunwale length, 84″ beam utility open model features optional deluxe removable converti-top with clear plastic side curtains, and rear cockpit is covered with white canvas. Accessories include walk-through front seat, two 18″ wide side seats in space for sleeping quarters, and storage space shelf beneath deck and front seat. Hull has 2″ balsa wood flotation.

●

SHEPHERD BOATS LTD.
NIAGARA-ON-THE-LAKE
ONTARIO, CAN.

MODEL 55
Length 16′, beam 6′4″, weight 725 lbs. The Model 55 has an outboard-inboard transom appearance designed to handle high powered new motors. Bottom—double planked ⅜″ mahogany; sides—batten seamed 7/16″ mahogany. Price, $1,935.

●

SID-CRAFT BOATS
PLAYER AVE. & RT. #1
NEW BRUNSWICK, N. J.

RACING BOATS
Championship craft in ASH, BSH, DSH, BU, DU, and 36 Class competition in the 1959 A.P.B.A. Nationals. The JU is 9½′ x 46″, 65 lbs., $310. AU is 11′ x 48″, 108 lbs., $355. BU the same cost and measurement at 120 lbs. CU and DU are 13′ x 15″ at $465, with the CU weighing 180 lbs., the DU 210 lbs. In the Hydro class, outstanding Sid-Crafts are the JSH at $375. ASH at 9′8″ x 62″, 118 lbs. for $425 and BSH the same; CSH and DSH are 10′8″ x 68″ at 155 lbs. for $485. All planking ribs, battens and transoms are of African mahogany.

●

SKEE-CRAFT BOAT CO.
INTERCOURSE, PA.

17′ FISHERMAN
17′ boat is available in two models, Fisherman with 18″ wraparound plexiglass windshield, and 17′ Runabout, with 18″ ventilating wooden windshield. Both boats have standard equipment including pegboard side paneling, complete steering, upholstered seats and full marine hardware and running lights.

HOLIDAY 18 CABIN CRUISER
18′ boat is offered in three models; Cabin Cruiser, Hardtop and Fisherman. All models have forward access hatch, complete steering equipment and running lights and hardware, and can be used with motors up to 80 HP. Cruiser features 2 permanent bunks with foam rubber mattresses, enclosed marine head, galley with stainless steel sink and water tank, cabin lights and ventilating wooden windshield, and ships wheel. Fisherman has foam rubber upholstered seats converting into 2 full-length bunks, marine head and ventilating wooden windshield. Fisherman has 18″ wraparound plexiglass windshield.

●

SOUTHWEST
MANUFACTURING CO.
P.O. BOX 2501
LITTLE ROCK, ARK.

ARKANSAS TRAVELER MODEL RKC-14G
13′7″x62″x26″ fiberglass sports runabout has fantail deck and self-draining motor well. It is rated for use with motors from 22 hp to 40 hp, and standard equipment includes USCG approved cushions, windshield and steering wheel and rigging. Price, $650.

ARKANSAS TRAVELER MODEL DUT-15G
14′2″x69″x32″ fiberglass sports utility has lapstrake design hull and fully-upholstered front seat with walk-through notch and USCG approved cushions, as well as conventional stern seat. Transom is 20″. Standard equipment includes windshield and steering wheel and rigging. Price, $760.

ARKANSAS TRAVELER MODEL DC-18G
17′10″x86″x43″ day cruiser is of fiberglass and recommended for use with high power, either single or dual installation. Features include roomy stern section with flat floor, hatch, built-in bowlight, lapstrake design hull, upholstered walk-through front seat, and recessed deck. Price, $1495. Fiberglass hardtop is optional equipment.

ARKANSAS TRAVELER MODEL CSP-16G
15′10″x80″x34″ fiberglass sports runabout features wide flared bow, recessed deck, folding seat backs, fantail deck with 20″ transom, fitted upholstery with USCG approved cushions and steering wheel and rigging. Boat is recommended for use with motors up to 85 hp, either single or dual installation. Price, $1195.

ARKANSAS TRAVELER MODEL CSP-15G
14′2″x69″x32″ fiberglass sports runabout is completely equipped, and features full-width windshield, flared bow, lapstrake design hull, upholstered front and rear seats with USCG approved cushions, walk-through front seat and 20″ transom. Price, $875.

●

STARCRAFT BOAT CO.
GOSHEN, IND.

JET STAR
15′ aluminum runabout. Price, including wraparound windshield, steering, lights, upholstery, etc., $595.

SKI CHAMP
14′ runabout of aluminum lapstrake construction. Low maintenance, leak and puncture resistant. Other boats in this line include aluminum and fiberglass open boats, runabouts and cruisers. From 12′

THEY GOT LIFETIME BOAT PROTECTION IN 63 MINUTES!

YOU CAN TOO!...WITH

TURTLE-SHELL TOUGH

CELASTIC®

ALL-IN-ONE, EASY-TO-USE, REINFORCED PLASTIC COATING FOR HULLS AND DECKS

Hull and deck protection was never easier . . . never more economical. Turtle-shell tough Celastic is a strong woven material generously impregnated with one of the toughest plastics ever developed. When dipped in a special solvent, Celastic becomes limp-wet and can easily be formed to any shape: flat, concave or convex. Once dry, it has tremendous adhesive qualities and high resistance to abrasion and impact.

CELASTIC'S MARINE USES ARE LIMITLESS

It can be used just as easily for covering or repairing larger boats, topside decks, canopies, storage boxes, etc. See your Marine Dealer today, or write for details.

A WASCO PRODUCT

WASCO PRODUCTS, INC., 5 BAY STATE RD., CAMBRIDGE 38, MASS.

HERE'S HOW TWO YOUNG PEOPLE MADE THEIR PRAM LEAK-PROOF

1. After sanding and priming hull, they cut pieces of Celastic to size.

2. Celastic is simply dipped in trough of Celastic Activator.

3. They apply Celastic to area to be covered, overlapping all seams.

4. Wrinkles and bubbles are rubbed out with cloth dipped in Activator.

5. The kids follow same procedure to cover entire hull and seal it with wash of Celastic Prime and Seal.

6. That's all! A toast to a job well done. Total time: 63 minutes.

to 18', prices from $160 to $995. Complete information on request.

●

STARLINER BOATS
BOX 474, CLINTON, N. C.

STARLINER CATAMARAN
Length overall, 17'; beam 7.6". Fiberglass construction. Capable of speeds to 45 mph.

●

SU-MARK INC.
STONE STREET
WALPOLE, MASS.

SPORTSTER
15' fiberglass boat is recommended for use with motors up to 40 hp. It is available in both Fish 'n Ski and Resorter models. Prices: from $549.50.

MATADOR
16'6" runabout built on hydrosled principle for additional lift. Fiberglass construction; will handle up to 60 HP. Price, equipped, from $1,099.50.

GULL
17' fiberglass runabout features large cockpit and may have increased seating by adding convertible rear seat. Recommended for use with motors up to 80 hp. Price: from $999.50, equipped.

CABIN CRUISER
21' cabin cruiser is of fiberglass, and features include head, sink, stone and 6'3" bunks, with other equipment. Prices: from $2895.

●

SWIFT BOATS, INC.
MT. DORA, FLA.

UH-092 ATOMIC "A"
9' x 54" hydroplane of aircraft spruce frame with mahogany bottom and side decks, and new plywood deck and cowl. Weight 100 lb. with, and 85 lb. without, hardware. Weight distribution 48-52%. Price, $395.

BIG DEE
11' x 6", Model UHD-112, C-D-F hydroplane of aircraft spruce frame construction planked with 4mm, 3 ply mahogany. Fastenings are brass and chrome screws, silicon bronze "Anchorfast" nails, Phenolic resin glue, brass and bronze bolts. Price, $525.

TROPIC EXPLORER STE-20
20'1" x 7'11" x 8". Sleeps 3. Cruise range (24 gals. fuel), 4 hours. Mahogany trim throughout. Price, including windshield, convertible top,

curtains, deck hardware, lights, drains, fiberglass reinforced bottom, $2050.

VOYAGER
16'x82" runabout includes combination rear seat and dry-well, bunk area forward, top, windshield, steering, deck hardware and running lights. Price: $1095. Also available in Ranger model, without rear seat and dry-well. Price: $995.

NIGHTHAWK
17'4"x90" boat features combination rear seat and dry-well, convertible top, walkthrough windshield and sliding hatch, complete steering controls and set of 10 cushions. Choice is given of Sitica resin non-skid deck or varnish deck. Price: $1595.

●

SWIFTWATER IND.
872 E. WASHINGTON ST.,
CHAGRIN FALLS, OHIO

SWIFTWATER BOATS
15'x70"x30" freeboard, fiberglass runabout in three models, the "Sea Sprite," "Sea Spray" and "Utility." "Sea Sprite" has side seats in the rear, and is a family boat and ski towing boat. "Spray" model has swivel seats for fishing. The "Utility" has a wide-open rear deck. A special feature is the "dry-well" design of the transom on the Sea Sprite model. Seat supports and dry well are of all fiberglass construction.

●

TERRY'S BOATS
HWY. 36 & CENTRAL AVE.,
W. KEANSBURG, N. J.

TERRY'S BOATS
16' and 18' fishing skiffs for inboard or outboard motors, mahogany and oak construction, prices $595 up. Other listings in inboards, rowboats.

●

TEXAS BOAT MFG. CO.
LEWISVILLE, TEX.

18 TEXAS MAID TAHITI
18'x80" boat is of aluminum construction with Dow Styrofoam flotation, upholstered forward hatch and removable fiberglass top. It is recom-

mended for use with motors up to 90 hp. Optional features include fold-down double seats which combine with adjustable front seats to make bunks. Price: $1125. With cabin and fold-down seats, $1495.

14' TEXAS MAID CARIOCA
14'x62" runabout is of fiberglass construction and features all-weather upholstery. Price: $698.50.

16' TEXAS MAID FIESTA
16'x80" boat is of aluminum construction with Dow Styrofoam flotation and can be used with 80 hp installations. Features include upholstered forward hatch, and boat may be equipped with fiberglass cabin. Price: $898.50.

14' TEXAS MAID STANDARD
14'x60". Aluminum fishing boat. Weight, 185 lbs. Takes motors up to 30 HP. Has Dow Styrofoam flotation. Price, $340.

14' TEXAS MAID OSPREY
14'x64". Weight, 300 lbs. Aluminum construction, chrome hardware. Choice of four color trims on white with matching all-weather upholstery. Takes up to 40 HP motor. Price, $625.

●

THOMPSON BROS.
BOAT MFG. CO.
PESHTIGO, WIS.

THOMPSON LAPSTRAKES
Outboard runabouts offered include two 14' lapstrake models, the 14' Lap-Chine, the 12' Take-Along, a canvas-covered fishing boat, and a canoe.

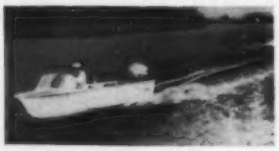
SEA-COASTER SERIES
17' lapstrake-hulled runabout is available in three models, all with storage areas under and behind the two rear seats. All boats are brass-bolted, treated with marine sealer and carry heavy ribbing, laminated keels and reinforced transoms.

SEA-LANCER
17' features lapstrake hull, has 80" beam, 1,750 lbs. capacity and top power rating of 90 HP. Boat is offered in standard outboard hull and with an 80 HP Volvo 4-cycle inboard unit with transom mount drive.

SEA-LANE
22' cabin cruiser has lapstrake hull and can be used with motors up to 160 HP. Load capacity is 3,150 lbs., and features include aluminum side insert windows, vented center windshield and sleeping space. Company also offers 19' Off-Shore Cruisers with same equipment, which may be equipped with 80 HP Volvo inboard marine motor.

●

TOMAHAWK BOAT MFG. CORP.
TOMAHAWK, WISC.



PLAYMATE
10' fiberglass model was designed for children and features built-in flotation, oarlock sockets, and bow eye. Maximum rating is 10 hp, maximum capacity 380 lbs.

CHIEF
14'4" 3-seat fishing runabout has 24" deck, oarlock sockets, transom pad and flotation. Recommended for use with motors up to 20 hp. Also available is a 14'4" fiberglass runabout with walk-through seating, underlock storage shelf, complete steering, and a maximum rating of 40 hp.

SKI MATE
15' fiberglass runabout has wide, flat planing area aft for water skiing, walk-through seating, open rear deck, complete steering, flotation and 15" transom. It is recommended for use with motors up to 65 hp.

SPIRIT OF TOMAHAWK
16'4" fiberglass runabout features walk-through seating, battery and gas tank tiedowns, under-deck sleeping area, complete steering, spring cushion upholstery, and flotation. It is available with either 15" or 20" transom, and is recommended for use with motors up to 65 hp.

SEA SHARK 18'
18'6" all fiberglass model has walk-through seating, open

PERKO PERKO

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PERKO "DYNAFORM" MARINE LIGHTS
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- Better Visibility
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- Exceeds Minimum U.S.C.G. Requirements
- At Better Dealers Everywhere

Perkins Marine Lamp & Hardware Corp.
1951 Pitkin Avenue
Brooklyn 7, New York

_____ Enclosed is 25¢ for 88-page Perko Catalog edited specially for Popular sized inboard and outboards.

_____ Enclosed is $1.00 for 200-page Perko General Catalog showing the complete Perko line of lights, hardware and equipment for boats of all sizes and classes.

NAME_____

STREET_____

CITY_____ ZONE_____ STATE_____

rear deck, battery and gas tank tiedowns, under-deck sleeping, complete steering and flotation. It is recommended for use with motors up to 80 hp. Also available is the 18′ Seamate, with same specifications and rear seating.

●

TRAILORBOAT ENG. CO.
923 FRANCISCO BLVD.
SAN RAFAEL, CALIF.

15′ SUPER

Length 15′4″, beam 74″. Will take up to 70 HP. Features fiberglass walk-through with detachable vinyl cushions and speedometer panel. Motor well is designed for single or twin engines. Removable hardtop is optional. Price, $1,075.

18′ RUNABOUT

Length 18′2″, beam 88″. Handles up to two 70 HP engines. Fully upholstered walk-through and seats. Ride-Guide steering. Smooth-flo hull with vented double bottom for extra strength. The complete Trailorboat line includes 9 models in 5 sizes in fiberglass and 5 models in 15 sizes in aluminum, with prices ranging from $155 to $2,395. Price of 18′ Runabout is $1,695.

18′ CRUISER

Length 18′2″, beam 88″. Handles up to two 70 HP engines. Plate glass windshields throughout. Sleeps two. High transom for ocean fishing. Ride-Guide steering. Price, $2,395.

●

TRIM CRAFT, INC.
BOSSIER CITY, LA.

HERCULES

Fiberglass construction, 15′8″ in length, beam 81″, hull wt. 692 lbs., transom height 20½″. Price, including windshield, $1,145.

●

TROJAN BOAT CO.
LANCASTER 21, PA.

SEA BREEZE CUSTOM

23′2″ x 96″ outboard cruiser weighs 4,800 lbs., is made of mahogany plywood, and has 17″ transom height. Price, $3,214.

●

TURNER CRAFT INC.
P. O. BOX 11749
ST. PETERSBURG, FLA.

TURNER CRAFT CABIN CRUISER

15′8″ x 85″ cabin cruiser has fiberglass deck and cabin, and plywood hull. Transom height is 20¼, and net hull weight, 760 lbs. Price, $1,495.

●

VIO HOLDA MFG. CO., INC.
TOPEKA, KAN.

RUNABOUT

Length 12′, beam 51″, hull weight 87 lbs. Constructed of aluminum with transom height of 16″. Priced at $213.50.

●

WESTERNER BOAT DIV.
WESTERN RUBBER PRODUCTS CO.
5001 E. FIRESTONE BLVD.,
SOUTH GATE, CALIF.

CAR-TOP UTILITY

10′x55″, weight 100 lbs. For motors to 10 HP, this boat has fiberglass hull and wooden gunwales and seats. Honeycomb double bottom construction gives flotation and strength without use of air-tanks, ribs and stringers. Price, $275, includes bow handle and rubber transom pad.

LAREDO DELUXE

11′7″x55″, weight of hull, 175 lbs. For motors up to and including 16 hp. Boat has fiberglass hull, deck, gunwales and wooden seats. Honey-comb constructed double bottom for flotation and strength. Price, $365, includes bow handle, stern handles and rubber transom pad.

TEMPEST SPORT SPEEDSTER DELUXE

11′7″x64″, weight of hull, 180 lbs. For motor, up to and including 20 hp. Fiberglass hull, deck and gunwales, fiberglass bucket seats and wooden front seat are included. Honey-comb double bottom gives flotation and strength without use of air tanks or stringers. Price, $425, includes bow handle, stern handles and rubber transom pad.

TEMPEST SPORT RUNABOUT

13′10″x66″, weight 280 lbs. Six-passenger fiberglass runabout for motors to 40 hp. Honeycomb double bottom construction for flotation and strength without use of air tanks, ribs and stringers. Price, $795, includes bow eye, stern handles, Plexiglass windshield, 2 pairs of step plates, foam rubber upholstered seats, and rubber transom pad. Also available is walk-thru mid-deck in front seat, $50.

TEMPEST FAMILY DAY CRUISER

15′11″x72″, weight of hull, 550 lbs. Fiberglass cruiser, which can carry 6 passengers or more. For use with motors up to and including 75 hp. Honeycomb constructed double bottom, deck and cabin top gives flotation and strength without use of air tanks, ribs and stringers. Price, $1,145, includes bow eye, stern handles and rubber transom pad.

●

WHITEHOUSE BOAT CO.
RT. 3, BOX 219
FORT WORTH, TEXAS

SPARTAN

12′1″x48½″ car-topper is of fiberglass, and has three seats, smooth flooring and transom width of 45½″. It is recommended for use with motors to 10 hp. Price, $189.

COLUMBIA

18′4″x84″ fiberglass cruiser bunks two in enclosed cabin, and is recommended for use with motors up to 140 hp. Features include forward deck hatch, flying bridge, sliding side windows, bunk mattresses, steering, upholstered rear seat and bow and stern lights. Price, $1699.

VICTORIA

16′8½″x79″ fiberglass day-cruiser has semi-enclosed cabin with sliding side windows and forward hatch for ventilation. It is recommended for use with motors up to 140 hp. Price, $1179.

JAMAICAN

14′8″x64″ fiberglass all-purpose craft is offered with three seating variations, and is recommended for use with motors up to 60 hp. Price, $649.

EUREKA

16′11″x86″ fiberglass modified three-point-in-reverse hydroplane operates with either single or twin outboard installations to 250 hp maximum. Front and rear seats are upholstered. Price, $1199.

●

WIZARD BOATS
DICKSON, TENN.

CONTESSA 20

20′ cruiser has upper and lower berths for 4, convertible

dinette, enclosed head, galley area with stainless steel sink, and vinyl surfaces and mahogany trim.

BARONET 18

18′ family cruiser can accommodate power installations from medium ranges up. Wide beamed boat features extra planing surface.

MARLIN PHAETON 17

16′ x 78″ fiberglass boat has net hull weight of 572 lbs. Transom height is 20″. Price, $1,345.

BOLERO IMPERIAL 15

14′3″ x 72″ fiberglass boat weighs 477 lbs., has 20½″ transom height, and features steering and panoramic windshield. Price, $1,095.

NEW ANNOUNCEMENTS

●

BEE BOAT CO.
PIPER CITY, ILL.

BEE BOAT 135

Length 12′11″, beam 63″, hull weight 320 lbs. Construction fiberglass with transom height 15¾″.

●

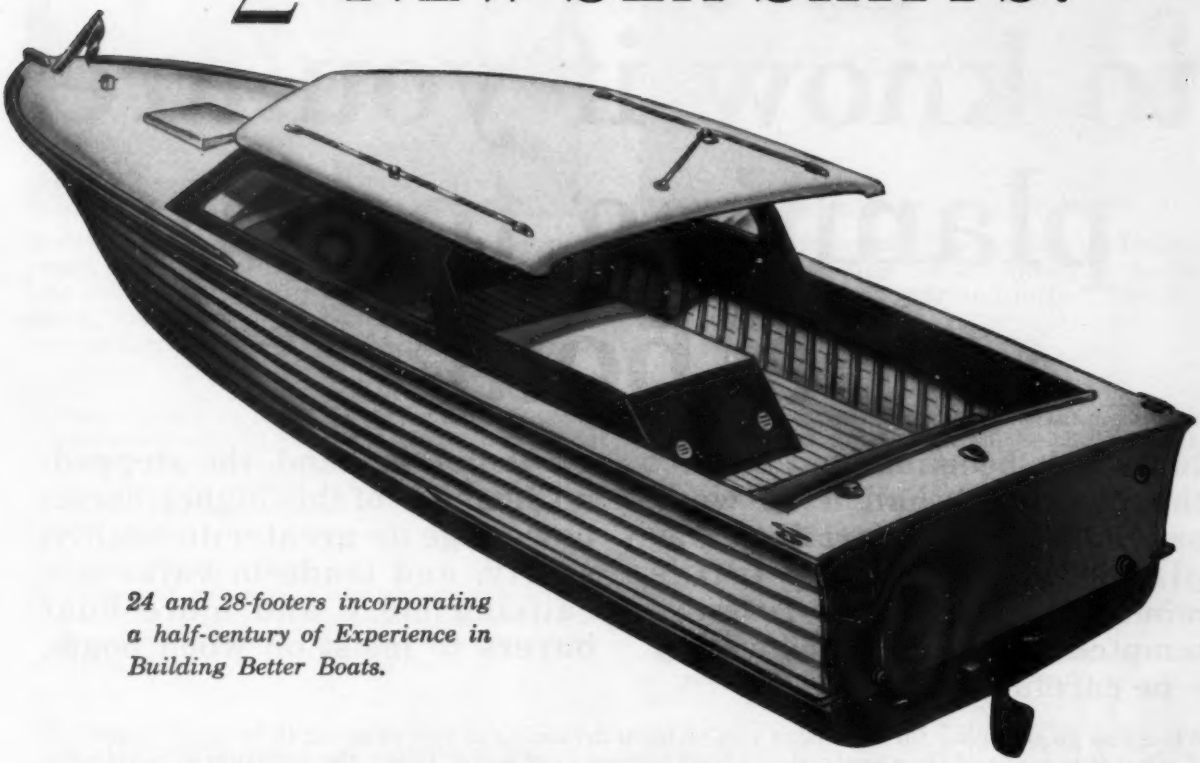
CRUISERS, INC.
OCONTO, WIS.

COMMANDER

Constructed of lapstrake plywood, 16′9″ in length with 79″ beam and hull weight of 908 lbs. Transom height 20¼″. Priced at $1,145.

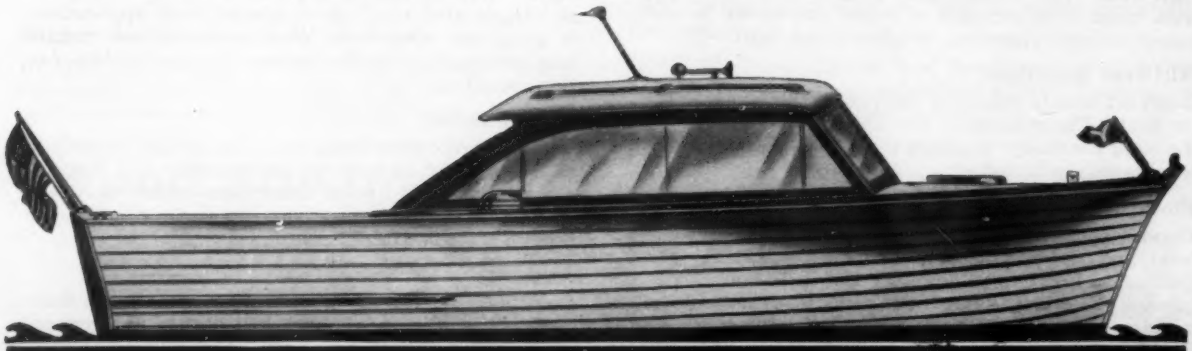
UNITED MARINE, INC., Announces

2 NEW SEA SKIFFS!



24 and 28-footers incorporating a half-century of Experience in Building Better Boats.

The new United Sea Skiffs incorporate the skills and experience that come only with years of doing. Back of every United Sea Skiff stands better than Fifty years of knowing how. The new "24" for example is as sturdy and seaworthy as they come. The best design, plus a combination of time-proven methods, means and materials are built into it. Both the "24" and "28" have lap strake hull construction. Fastenings are bronze screws. Single power, with V-8 engine is standard, with direct drives and hydraulic clutch control. Twin power is optional on the "28". Other items of optional equipment are available on both boats. See your Richardson or Colonial Dealer or write for complete information.



UNITED SEA SKIFFS

UNITED MARINE, INC., MILLVILLE, N. J.

BUILDERS OF RICHARDSON and COLONIAL CRUISERS

Why wood is still unsurpassed for boats!

Things you'll want to know if you are planning to buy a boat

In today's booming boat market the question "shall it be wood or a substitute material such as plastic?" looms large in the minds of boat buyers. To those tempted with substitutes we say —be careful.

On the other hand, the stepped-up demands of this higher-horsepower age for greater durability, safety, and trade-in value are causing more and more boat buyers to insist on wood boats.

When you go shopping for that boat you've been dreaming of you're going to be more conscious of what it is made of than yesterday's boat buyers ever were. Today the question of plastic vs. wood boats has been exposed to over 15 years of tough in-the-water activity. And experienced boat owners point out that the big steps forward in practical boat construction are not in the direction of substitute materials, but in the quiet, steady progress of modern wood chemistry. One thing upon which all agree—any material intended to substitute for wood must meet a formidable array of qualifications.

Strength

Few realize the great strength of wood. Marine plywood, pound for pound, is even stronger than steel. And wood *keeps* its strength. It does not turn brittle with time. The strength of wood can never be impaired by age, vibration, or ultra-violet light.

Natural flotation

Wood is the only naturally buoyant material available for boats. The millions of tiny air cells in wood reduce the need for bulky flotation chambers with their unreliable safety factor.

Flexibility

Wood is the only inherently sturdy material that can bend and re-bend without fatiguing, cracking, and ultimately breaking. Flexibility plus inherent sturdiness are imperative if a boat is going to withstand the terrific stresses imposed by water and motion.

Repairability

Repairability is a most important factor in any boat. And no material is as workable as wood for re-fitting and re-building at damage points. Wood work requires no complicated equipment, special heat application, or dangerous chemicals. Wood boats do not require long return trips to the factory for repair. And you *know* wood will hold.

Maintenance

Regardless of claims being made for certain materials, no boat can get by without maintenance and keep its appearance. Today wood boat maintenance has been reduced to a minimum thanks to the superiority of modern wood finishing techniques.

Economy

Wood is by far the most economical material in boat construction. The per-square-foot cost of fir plywood

THE WOOD BOAT

AN ASSOCIATION OF WOOD BOAT BUILDERS AND SUPPLIERS

Today's marine wood can be made decay-proof, dry rot-proof, even fireproof. And, unlike other materials, wood is unaffected by aging, vibration, ultra-violet light, electrolysis or corrosion.

Dollar for dollar, today's wood boat is by far the biggest package for the money. It holds its value year after year and, in fact, usually increases in value.

for instance, is only a fourth the cost of the most popular substitute material. Boat owners know from experience that wood boats hold their value better than boats of any other material. In fact, wood boats under proper care even *improve* with age. There is absolutely no limit to the lifetime of wood.

Natural soundproofing

Wood leads all materials in sound-proofing qualities. The constant banging of waves against a speeding hull of thinner, and more brittle materials can be extremely annoying. Wood is a natural sound deadener.

Beauty

Words can hardly do justice to the natural beauty of wood—the graceful pattern of the natural grain or the solid appearance of the painted wood surface. The warm texture of wood has an unspoken feeling of quality and timelessness about it. You feel at home with wood.

Security

You always know what can be expected of wood—its advantages and limitations. You know its needs and how to remedy them. Hidden fractures radiating out from points of vibration or impact are unheard of in wood boats.

Higher-horsepower requirements

In 1947 the average outboard engine was under 5 horsepower. Today engines up to 85 horsepower are on the market—engines that demand the most rugged hull construction possible. Wood is the substance best qualified to withstand the terrific force, vibration, and pounding that the boats of this higher-horsepower age are being subjected to.

Trade-in value and appraisability

A boat is always an investment. How much trade-in value it will have depends upon materials and construction. The superior stamina, long life, and inherent beauty of wood are your best protection against depreciating value. Trade-in value also depends upon appraisability. Accurate appraisal of plastic materials affected as they are by fatigue, ultra-violet light, and aging is extremely difficult. Wood boats can be accurately appraised at any time. It's nice to know you can always get top dollar for your boat.

The great new advantages of wood

In the hands of today's designers and under today's craftsmanship and chemistry, wood is now better than ever for boats. New processes of treatment now make wood boats impervious to decay and dry rot. New miracle adhesives render today's wood joints permanently watertight. Advanced varnishes, new epoxy and polyester resins are making today's wood finishes superior to anything ever before imagined. And under modern treatment wood can now be made completely fire-resistant.

With these remarkable new developments in wood chemistry, plus the time-honored natural advantages of wood, you can see why we say—

Wood, always naturally best for boats--
now better than ever!

FOUNDATION

185 NORTH WABASH AVENUE CHICAGO 1

WBF FOUNDATION WOOD BOAT

INBOARD BOATS

INBOARD ENGINE-POWERED boats offer the powerboat enthusiast a wide range of sizes, types and styles, from open skiffs to the ultimate in large luxury cruisers containing practically all the household conveniences available. Here are some things to consider in making a choice:

How Often Will the Boat Be Used?

Many a boatman has bought a new cruiser, and then wished she were larger shortly thereafter. It is best to decide the type of boating you plan to do most, and make your selection on that basis. If you plan to do a great deal of overnight cruising with several couples aboard, you will want adequate stateroom facilities for everyone. If your boating is more likely to be afternoon swimming parties or offshore fishing, a large after cockpit and minimum cabin may be enough. A long season with cool northern spring and fall days can make a well-enclosed roomy cabin very desirable. If your boating is limited to a few hot summer weekends, an open craft with folding top could prove sufficient.

How Many Aboard?

A careful estimate of possible passenger loads is important in determining the best boat to buy. Though a good-sized inboard runabout or cruiser owner is less likely to overload his craft, perhaps, than some small-boat skippers, it is necessary that his choice of boat keep crew size in mind. Often children will wish to bring along several friends, or friends in a smaller day sailer may be fogged in with you in a remote harbor and you'd like them to stay aboard overnight. Galley facilities, clothing lockers, and stowage must also be adequate for anticipated needs. No boat can seem large enough for all uses, but advance planning at purchase time will make for much more enjoyable boating.

Where Will It Be Used?

One of the biggest advantages of the inboard boat is its facilities for long or extended cruising; small lakes, rivers and bays can provide a field for equal enjoyment. Here the high-speed runabout, if given room for safe operation, can tow water skiers, race rapidly to nearby harbors, or throttle down for an afternoon of quiet fishing. Speed offers an opportunity to increase the boating family's area of operation, and still be home before sundown or ahead of a threatening storm.

The inboard boat is trailered and hauled from the water less frequently than outboard boats, due to its greater weight, so it is more suited to a location where it may be left tied to a dock or on an anchorage when not in use. Such a boat should be kept in waters free of sandbars, rocks or other underwater snags that could damage propeller and rudder assemblies. A ramp, lift, or marine railway so the boat can be pulled from the water for propeller and engine servicing as well as for winter storage is helpful.

If you want a larger craft that can operate safely in unprotected water, choose a sturdy boat that can take a blow if you are caught offshore. Compare the hull designs on the following pages with those proven in operation in your area. Experienced boatmen can advise you of the types of craft with performance most likely to fill your particular needs. A large inboard cruiser is a considerable investment; a second-hand model under consideration should always be first examined by a qualified marine surveyor.

CHECK LIST FOR THE INBOARD BUYER

- ☐ **Is this boat suitable for your local waters? Suitable for longer trips you may want to take?**
- ☐ **Is she similar to craft you have already handled so that you (and your family) will feel comfortable about your ability to skipper her?**
- ☐ **Does the builder have a well established reputation?**
- ☐ **Can the dealer refer you to other satisfied owners?**

HULL

- ☐ **Have hulls of this type proved stable and seakindly in your local waters?**
- ☐ **Have the materials (wood, metal, or plastic) stood up well in your area?**
- ☐ **Is it easy to repair?**
- ☐ **Do the boats have good resale value?**
- ☐ **For the number of years you expect to keep the boat, does the design have styling which will continue to be pleasing, or will it be outmoded rapidly?**

ENGINES

- ☐ **Will your choice of power give you the speed and cruising range you will require?**
- ☐ **Can your purchase be budgeted to allow for twin engine installation for added safety and maneuverability?**
- ☐ **Do your motor manufacturers have an established reputation and good repair and servicing facilities in your area?**

ACCOMMODATIONS

- ☐ **Are both cockpit and cabin accommodations adequate for family entertaining and cruising?**
- ☐ **Can cabin be kept warm in cold weather, well ventilated and screened when it's hot?**
- ☐ **Is your choice "fully found," or will a great many items of equipment and accessories be required?**

How Much Power?

Sturdy construction of the inboard allows you a wide range of power options, and most manufacturers list a number of engine choices for their craft. If flashing runabout speed is your goal, the high-horsepower marine engines can drive stock models up to 60-plus miles per hour, and over 100 in the racing classes. The huge Unlimited Class hydroplanes carry Rolls Royce or Allison aircraft engines and reach straightaway speeds of more than 190 miles per hour.

Speed for the cruiser owner, however, does not mean winning races, but a way of enlarging the area of operation for a family, the harbors that can be reached before dark or over the weekend. Here the purchaser will look for established, reliable names in the marine field; manufacturers whose models can be counted on to run hour after hour of dependable cruising. The inboard buyer can choose between the light versatility of gasoline power and the heavier, but economical and less hazardous diesels.

In mooring or maneuvering about a fuel dock, a dual engine installation is advantageous. Not only is the effect of propeller torque negated by counter-rotating screws, but one engine can be run ahead while the other is reversed for sharp turns in tight quarters. Offshore it is good to know that should one engine have problems, or one propeller and shaft be bent by an underwater obstruction, the other powerplant alone can bring you safely home. If size of boat and budget allow, by all means select twin engines.

In considering a choice of craft, don't fail to remember that a boat is a long-term investment, and that many years of pleasure for the whole family are possible. Most larger banks are well acquainted with the value of boats, and can offer a regular finance program if you cannot budget the complete price of a large cabin cruiser in one payment. The following pages indicate the large variety of craft available.

Great news for boat owners!

NEW ULTRA V SPAR VARNISH LASTS 2 TO 3 TIMES LONGER THAN CONVENTIONAL SPAR VARNISHES

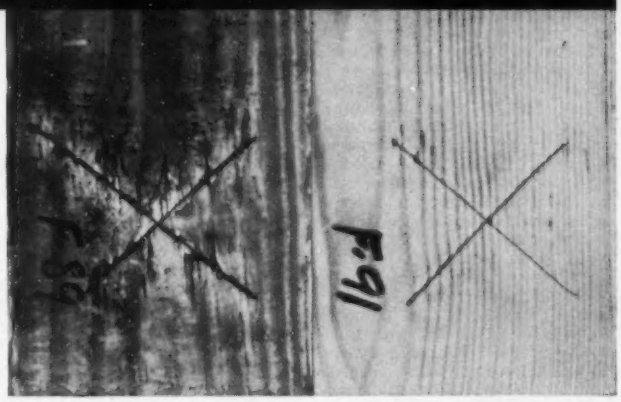
EXPOSURE TESTS CONCLUSIVELY PROVE SUPERIORITY OF DU PONT ULTRA V

From Du Pont research laboratories comes new Du Pont Ultra V Spar Varnish—the tough clear finish that lasts 2 to 3 times longer than ordinary marine spar varnishes. These results have been confirmed by hundreds of field tests by a wide cross-section of seasoned boat owners.

Unlike ordinary marine clears in current use, Ultra V is formulated with a special ultraviolet absorber that has unusual resistance to sun rays.

Tidewater exposure tests, as well as exposures in Florida, Texas and Delaware, conclusively establish the superior gloss retention and long life of this new "bright work" finish.

Here at last is an easy-to-apply, tough, durable, long-wearing clear marine varnish you've been asking for. Now . . . at your nearest Du Pont "Dulux" Marine Finishes dealer or boat yard.



The panel above indicates typical appearance of 3 coats of a good grade of marine spar varnish after 12 months' Florida tidewater exposure.

This panel was finished with 3 coats of Du Pont Ultra V Spar Varnish and exposed under exactly the same conditions for the same length of time. See the difference!

ASK YOUR DU PONT DEALER OR BOAT YARD ABOUT

MARINE ANTI-FOULING BOTTOM PAINT

Works on the eroding principle . . . helps control marine growth on boat bottoms . . . designed to last a full season.

DULUX® MARINE FINISHES

DU PONT

REG. U. S. PAT. OFF.

BETTER THINGS FOR BETTER LIVING . . . *THROUGH CHEMISTRY*

●

ALBRIGHT BOAT & MARINE CO.
P. O. BOX 3745
CHARLOTTE, N. C.

20' CLIPPER

19'6" x 88" x 45" lapstrake fiberglass runabout is available in both inboard and outboard models and is equipped with running lights, steering, deck hardware, windshield, soft top and custom upholstery. Hardtop is also available. Inboard power options include 185 HP Crusader, 225 HP Crusader and 225 HP Graymarine engines. Prices: from $4,945 to $5,295. Also available is a 17' deluxe runabout.

●

AMERICAN FINN BOAT CORP.
495 S. GROVE ST.
FREEPORT, L. I., N. Y.

AMERICAN FINN 25' MODEL

24'6" x 8'10" cruiser has 185 hp Flagship V8 power with hydraulic controls, and is equipped with 2 bunks, head, hard top, fish wells, self-bailing cockpit. Planking is of solid African mahogany planking, 11/16" thick. Price: $4,595.

●

THE ANCHORAGE, INC.
57 MILLER ST., WARREN, R. I.

DYERCRAFT "29"

28'6x9'x2'6". Available with gas or diesel power, from 85 to 250 HP. Top speed 17-25 knots. Cruising speed 15-20 knots. Single or twin screws. Fuel capacity 100 gals. Cruising range 150-200 miles. Sleeping accommodations 2-4. Has cooking facilities and one head. Built of fiberglass reinforced polyester resin, color pigmented resin used in hull for minimum maintenance. Features wine glass section garboards and "built down" keel for increased seaworthiness and better handling in rough waters. Price $10,950 and up, includes foam rubber berths, standard government equipment, special ventilating screened windows. Available accessories are navy top, semi-enclosed and flying bridge models.

16' DYERESIN UTILITY

15'9x5'10"x14". Runabout. Engine 30 to 70 HP. Top speed is 30-32 MPH. Engine, Universal Atomic 4 Unimite Gray 4-45 and 620. Carrying capacity 5 to 6. Features extreme flare at bow with narrow entrance, semi-tunnel or flat stern with protecting skeg, lightweight for trailer transportation and yacht tender service. Price, $2,395 and up, including 20 gal. gas tank. Monel or Tobin bronze shaft. Goodrich bearing. Equipoise propeller, Anti-Foul bottom. Available accessories, canvas hood and extension, cockpit cover $118; Socony fender $55; side steerer $40; bow towing eye $10.

20' DYERESIN UTILITY

19'11"x7'3"x20". Runabout. Engine 70 HP, top speed 26 MPH. Engine, Universal Aqua-Pak. Carrying capacity, 6-8. Features extreme flare at bow with narrow entrance, designed for fishing or sport runabout with speeds for water skiing. Price, $4,650, includes standard government equipment, 2-20 gal. gas tanks, folding windshield. Available accessories, deluxe standing top model with seats forming berths, toilet (extra).

●

THE BALCO YACHT CO.
P. O. BOX 4065, DUNDALK 22, MD.

SEA DUKE

27' solid fiberglass cruiser. 8'5" beam, 2'3" draft. Has flying bridge, self-bailing cockpit, ice box, dinette, berths, storage, etc. Prices start at $7,585. Available as outboard, $6,150; available as utility and sport models, outboard and inboard, from $4,600. Other boats available: 19' "Morphean," solid fiberglass flying bridge cruiser with mahogany beams and decking, 4'6" headroom, 20 gal. fuel tank, bronze shaft, rudder, and strut, 6'5" beam, lights, toilet, forward hatch, lines, rails, insulated engine box, bell, horn, life preservers, fire extinguisher, ventilated bilges, sliding safety glass windows, controls, instruments, storage, etc., weight 1,600 lbs., price $4,030 up; available as outboard, weight 800 lbs., less some of the above features, price $2,550. 23' "Chesapeake Weekender," solid fiberglass flying bridge cruiser with construction and features similar to the Morphean, price $5,980 up; available as outboard, price $4,400. Other models, all fiberglass, from 16' to 27', starting at $795.

34' SEA BARON

33'6" x 11'1" x 2'11" flying bridge cruiser has solid fiberglass hull, and can sleep 6 to 8 persons. It is available in four standard arrangements giving cockpit sizes of 10'-6" x up to 14'-11", and has headroom of 6'4". Variety of power options is offered. Standard equipment includes airfoam cushions, running lights, stainless water tank, stainless sink, lavatory, ice chest, instruments, flying bridge controls, ventilated bilges, toilet and marine batteries. Cabin, trim and deck are mahogany, with options given for finished fiberglass if desired. Prices: from $13,900 to $18,300, complete, depending on power options; $3,500 fiberglass hull only, completely finished surfaces on interior and exterior. Prefabricated parts are available.

●

BAY HEAD SKIFFS
NEW JERSEY YACHT SALES CORP.
RT. 35, POINT PLEASANT BEACH, N. J.

BLUEWATER DAY SPORTSFISHERMAN

30' skiff with convertible shelter top having a hinged forward section over the helmsman's seat as an optional feature. Planking of white cedar and superstructure of African mahogany, on white oak frames. Cockpit is self-bailing and neoprene sealed. Equipped with two 6'3" berths, toilet, teak-top bar, Monel tanks and shafts, hardware, lockers, lights, guard rails. Price, with twin 215 HP Interceptors, $19,500.

30' CARIBBEAN CRUISER

30'2"x10'6"x2'2" sports express cruiser has all-teak decks, including cockpit and raised bridge deck. Bridge has cellarette with basin, refrigerator and removable dinette. Boat sleeps 6, has enclosed toilet room, with shower optional, stainless-steel galley with built-in stove. Standard power installation is twin 225 hp Gray V-8s with reduction gears, giving speeds to 33 mph. Price, $2800.

SUPER-SPORTS EXPRESS

36' boat achieves speeds past 40 mph with standard twin 275 HP Chrysler engines; has Jersey lapstrake skiff hull, all-teak decks, Monel tanks and shafts, raised teak bridge and Monel fish well flush under cockpit. Living features include sleeping facilities for 5; separate toilet and basin for forward crew's quarters; dinette; all-electric, stainless-steel galley and double-door electric refrigerator; enclosed toilet room with sink, vanity and hot water shower and locker space. Price, $37,500.

●

BURGER BOAT CO., INC.
MANITOWOC, WIS.

BURGER 65

Standard steel cruiser offers

choice of interior arrangement plans, has flush deck and is available with many accessory options. Power is furnished by twin GM 6-71 diesel engines. Also available is new Burger Aluminum 63, with hull design by Sparkman & Stephens, Inc., in both two- and three-stateroom arrangement, and closely resembles the Standard Burger 65 in steel. 71' aluminum cruiser with topside galley and dining salon with lounge opening to afterdeck is also available.

BURGER 80

80' flush deck cruiser is powered by two GM Turbo-charged 6-110 Diesel engines, with tanks built integral with steel hull storing 2100 gallons of fresh water and 4300 gallons of fuel. 20' deckhouse lounge opens to teak afterdeck, and dining salon forward is 12'x 12'6". Burger Standard 80 is available with or without a topside galley and features 4 staterooms with 3 baths in owner's quarters. Other Standard Steel Cruisers are available in 54', 60', 65', 70', 75' and 90' sizes, all with four watertight bulkheads, trim and deckhouse finished in natural Honduras mahogany and decks in fiberglass and teak. Power is furnished by GM 6-71 and GM 6-110 diesels.

●

CHRIS-CRAFT CORP.
POMPANO BEACH, FLA.

17' SKI BOAT

17'x6'7½"x18½" boat features non-trip chines, Philippine mahogany hull, double-planked bottom, batten-seamed sides and standard engine options include Chris-Craft V8, Model 283. Equipment includes bilge pump, fire extinguisher, fuel tank, instrument board, life preservers and throttle control. Ski-tow and other accessories are available.

27' CONSTELLATION

27'x10'x28½" boat has cruising accommodations for four, a 10' vinyl-covered cockpit, flybridge controls and choice

MASTERCRAFT
opens new fun frontiers
A Mastercraft is many things. It's a backyard mooring . . . a mobile launching ramp . . . most of all, safe, convenient transportation for your boat from home to water. Mastercraft makes it possible to go where the fun is. Fishing, cruising, water skiing—if boating fun is within driving distance, Mastercraft puts it within reach of your boat.
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MASTERCRAFT TRAILERS
Mastercraft has a boat trailer for every budget and every boat from 300 lbs. to 3 tons. Choose from 24 models. Where land-locked sailors depend on trailers, the choice is Mastercraft.
FREE CATALOG—For everything you want to know about boat trailers, write for the free, 1960 MASTERCRAFT catalog—20 big pages full of colored illustrations, photographs, and up-to-the-minute information. Don't wait until the boating season is underway. WRITE TODAY.
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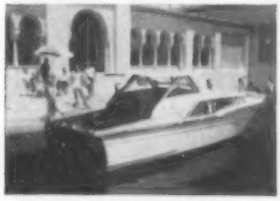
MASTERCRAFT trailers, inc.
SUBSIDIARY OF CADRE INDUSTRIES CORP.
433 MIDDLEFIELD STREET • MIDDLETOWN, CONNECTICUT

of single or twin engines, including Chris-Craft's new V8s, up to 370 hp. Features include Philippine mahogany construction, batten-seamed hull sides and double-planked bottom. Equipment includes paneled cabin, vee-berth stateroom forward, two wardrobes, dinette, galley and lavatory.



32′ COMMANDER
32′x11½′x28½″ six-sleeper has twin 185 hp V8 engines for speeds to 33 mph, and features solid Philippine mahogany construction throughout. Equipment includes one-level aft cockpit, hardtop bridge enclosure, lavatory, linen space, complete galley, dinette, twin vee berths forward and lounge that converts to upper and lower berths. New hull design has deeper keel and higher chines; bottom is double planked and hull sides are batten-seamed.

40′ CONQUEROR
40′ Chris-Craft Conqueror features Philippine mahogany construction, built-in sundeck and aft cockpit. Cruising accommodations include deckhouse with lounge, open-styled to unite galley and dinette, forward stateroom with private toilet facilities. Owner's cabin aft accessible from deckhouse or aft cockpit. Twin engine options up to 550 total horsepower, including diesels, provide speeds to 33 mph.

50′ CONSTELLATION
50′x14′x3′4″ motor yacht has solid Philippine mahogany construction, twin engines up to 600 hp, and cruising accommodations for 10. Boat has fore and aft and side decks, semi-enclosed bridge, paneled salon, galley, dinette, deckhouse, private stateroom and lavatory, master and guest staterooms and adjoining bath.
Bottom is double-planked and sides are batten-seamed.

●

CAVALIER DIVISION
CHRIS-CRAFT CORP.
POMPANO BEACH, FLA.

18′ SPORTS UTILITY
18′x6′7¾″x18″ utility is offered

with V8 power, Philippine mahogany finish, mahogany plywood hull and vinyl-upholstered cockpit. Prices: from $2555 for Sports Utility with 100 hp, up to $3025 for V8-powered Custom model.

23′ CAVALIER EXPRESS CRUISER
22′9¾″x8′2½″x19½″. Cavalier Express Cruiser powered by Chris-Craft 185 HP V-8 engine, for speeds up to 35 mph. Sleeps 2 or 3 persons on foam rubber. Standard equipment and appointments include bow pole with pennant; cabin lights; 12-volt electrical system; chocks and cleats; cushions; stainless steel galley; fire extinguisher; fuel tank with overboard vent; glass rack; handrails; hatch ventilator; electric horn; ice box; engine instruments and panel; mast and range light; running lights; mattresses; mirror; stern seat; stove; dinette table; throttle control; toilet; ventilators; vinyl floor-covering; wardrobe. Constructed of Philippine mahogany and marine plywood fastened with brass screws and bolts. Price, $4,295. 25′ Cavalier Express Cruiser also available; sleeps four. Price, $5,245. Accessories available.

30′ CAVALIER EXPRESS
30′x10½′x24″ cruiser sleeps 6 and is offered with single or twin screw V8's. Features include flybridge controls, cockpit, cabin complete with galley, dinette, lounge and private lavatory. Cockpit and cabin floors are vinyl-covered. Price: $7880, fully equipped.

●

SEA SKIFF DIVISION
CHRIS-CRAFT CORP.
SALISBURY, MD.

18′ OPEN UTILITY
18′x7′x23″ open utility is round-bilge, lapstrake design with hull supported by white oak frames. Equipment includes ventilating windshields, instrument panel with ammeter, tachometer, oil and temperature gauges; engine box; folding front seat center section; and vinyl-covered forward deck. Prices: from $2495 to $2775, depending on power options.

23′ OPEN UTILITY
23′x8′4″x23½″ utility has round-bilge lapstrake construction and V8 power options for speeds to 33 mph. Boat has ventilating windshields, complete instrument panel, engine box, full width stern seat, and recessed companionway leading to forward compartment for which vee berths and toilet are optional extras. Construction features steam-bent white oak frames and lapped planking.

30′ SEA SKIFF HARDTOP CRUISER
29′11½″x9′9″x2′4″. Sea Skiff Hardtop cruiser powered by twin Chris-Craft engines (90 to 185 HP selection) for speeds up to 34 mph. Available in two models, for sleeping two or four persons. Round bilge, lapstrake construction, copper, brass and bronze fastened. Seams sealed with synthetic rubber compound. Price from $8,710.

40′ SEA SKIFF HARDTOP CRUISER
40′x12′x2′9″. Sea Skiff Hardtop cruiser powered by twin Chris-Craft G.M. Diesels or Chrysler engines, for speeds up to 30 mph. Fuel capacity, 200 gals. Sleeps 6. Round bilge, lapstrake construction, copper, brass and bronze fastened. Seams sealed with synthetic rubber compound. Equipment similar to other listed Sea Skiffs, plus certain items available only on larger models. Price, from $28,280.

●

CROSBY YACHT BUILDING
& STORAGE CO., INC.
OSTERVILLE, MASS.

STRIPER
24′x8′4½″x2′2″. Seaworthy hull has native white oak keel, heavy frames, full length claps and stringers together with white oak deck frames, cross members and knees. Hull planking, decks, superstructure, interior of cockpit and cabin are all of solid Philippine mahogany. Sleeping 2, the Striper is powered by a Palmer 120 h.p. engine with drive assembly both rubber mounted. Prices start at $6,285, with long list of accessories available.

●

DOUGLAS SCOTT
DEVELOPMENT CORP.
3932 W. 150th ST.
CLEVELAND 11, OHIO

STEEL SCOTT CRUISER
25′11″x8′8¾″x2′6″ cruiser is offered in four stages of construction, has vee bottom, cruises at 18-20 mph with standard installation of 200 hp Chris-Craft, sleeps 4, has sink, ice box, enclosed toilet and dinette for 4. Price: $6995. Also in Stage I model, less hardtop, finish paint and varnish, in full operating condition, $5995. Stage II, same as Stage I less cabin exterior, $5295, and Stage III, hull only, $1495.

●

EQUITABLE EQUIPMENT CO.,
INC., SHIPBUILDING DIVISION
410 CAMP ST.
NEW ORLEANS 12, LA.

WATER TAXIS
Water taxis are available in models 32′ x10′9″, 38′3″ x 12′11″, 39′9″ x 12′3″; 51′6″ x 14′3″, 54′ x 13′7″ and 64′9″, with seating capacities from 14 to 60 persons. All have semi-Vee bottom shapes, and steel planking. They are recommended for use with single 400 HP installations to twin 1200 installations.

YACHTS
Stock yachts available include 54′ x14′10″ and 64′9″ x 17′3″ models, both with semi-Vee bottom shapes and steel planking. 54′ model has 10 berths and is for use with power up to twin 800 HP installations and 64′9″ model has 12 berths and is rated for use with installations up to twin 1200 HP.

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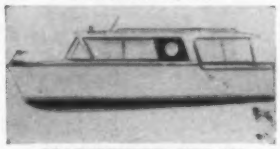
MARINE DIVISION
FALLS CITY FLYING SERVICE,
INC.
STANDIFORD FIELD
LOUISVILLE 13, KY.



MARINETTE SEDAN CRUISER
29′ boat, previously made as houseboat model, is now a sedan cruiser, with hull and

more than colorful BEAUTY...
more than lasting PROTECTION...

only LIQUID PLASTIC

VINYLON®

gives you these amazing *extra* benefits!

1

MOST BEAUTIFUL FINISH AFLOAT!

Vinylon gives you the sleek, polished look of true plastic . . . free of hairline checks and pores . . . in a rainbow range of 12 selected nautical colors and sparkling clear. Use these popular colors as they come from the can . . . or mix them to create your own distinctive new shades. You'll be proud of the glistening new beauty you never thought was possible.

2

ENDS YEARLY REPAINTING!

Vinylon's gleaming plastic finish washes like a china dish . . . looks as good as new the second season! Can save you as much as 80% on maintenance costs! You use three coats the first season, then only one coat every two years under normal conditions to restore Vinylon's original elastic finish.

3

WATERTIGHT PROTECTION!

Vinylon is based on a new concept in marine finishes. Applied like a paint, it forms a "living" elastic membrane that can stretch 100%. This elastic skin expands and contracts as your boat rides in the water. Moisture can't penetrate,ending annoying seepage and weight-increasing absorption. Your boat is watertight . . . lighter . . . faster!

4

***PLUS*...A GREAT NEW IDEA IN DECKING!**

Vinylon combines with Vinylweve* plastic mesh to form a watertight, glare-free, skid-resistant surface for decks, cabin tops, and cockpit floors. Colorful, decorative, economical! Easy to do! Your dealer has all the materials you need plus complete how-to-do-it instructions . . . or write us today!

*Trademark

also . . . **VINYLON ANTI-FOULING. You get remarkable, long-lasting protection with Vinylon Anti-fouling. The plastic base holds up to four times the anti-marine-growth properties of other bottom paints!**

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ORIGINAL LIQUID PLASTIC MARINE COATING

Write for free literature, color card, actual strip sample and dealer list to:

Frank Kenyon, SURFACE COATING ENGINEERS, INC.
272 Doremus Ave., Newark 5, N. J. PB

NAME_____

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cabin exterior completely redesigned. Features include all-aluminum construction, and boat can be used with a single 70 hp. inboard, with which top speed is up to 18 mph, while 20 mph is attained with 109 hp engine, and 25 mph with twin 70 hp engines. Included are Styrofoam flotation, hull and superstructure are one integral unit, glass fiber insulation is used. Cruiser sleeps 4, has galley, complete head and screened-in windows and door. Cabin has 6'3" headroom.

●

GRAFTON BOAT WORKS
GRAFTON, ILL.

HOLIDAY CRUISERS

25'11"x8'3"x1'10" cruiser, available also in express model; has single 225 HP Gray marine V-8 engine; one-piece reinforced fiberglass cabin roof; head; storage, and wrap-around plastic windshields. Different models sleep 2 to 4. Three other cruiser models, to 45', are offered by maker. Prices: from $6,592 to $46,520.

26' EXPRESS CRUISER

26' Express Cruiser has single 225 HP Graymarine V-8, and can achieve speeds to 33 mph. Boat sleeps 4, has dinette, storage, locker, full headroom toilet, one-piece fiberglass galley top, one-piece reinforced fiberglass cabin roof and wrap-around plastic windshields. Price, $8,910.

●

GULL FIBER-PLASTIC PRODUCTS, INC.
BOX 1412, HIGHWAY 10 WEST
MISSOULA, MONTANA

HOLIDAY INBOARD

18'x86"x49" depth amidships, inboard runabout of all-fiberglass construction. Choice of power in V8's: 220 HP, 240 HP and 310 HP. Hydraulic or manual transmissions. Speeds up to 50 mph. Features padded dashboard with full instrument cluster, aircraft type throttle. Approx. weight, 1,985 lbs.

●

CHARLES HANKINS & SONS
HGWY NO. 35, LAVALLETTE, N.J.

24' JERSEY SEA SKIFF

Length 24', beam 8'6". Planking, white cedar ¾" or ⅝" lap streak. Bottom 2" spruce or cedar slip tongued. Bow and side decks ½" marine plywood celastic fiberglass covered. Cabin has 2 bunks, 6' long, about 5' headroom. Power, Palmer 135 HP delivery 24 mph.

30' HANKINS SEA SKIFF

Length 30', beam 10'6". Power, Palmer Spacemaker 13 HP delivering 18 mph. All cedar, lapstreak hull, copper riveted. Cabin has 2 bunks, with upper bunks optional, and headroom of over 6'. Same boat offered in 28' and 32' models. Hankins offers a complete line of sturdy utility boats in lengths from 22' to 28'.

●

HODGDON BROS., INC.
EAST BOOTHBAY, MAINE

HODGDON 27' POWER BOATS

27'5"x8'9"x2'6" boats have displacement of 6200 lbs. Chrysler engines from 110 hp to 177 hp give speeds to 25 mph, and boat is available in two models, Bluewater Cruiser and Offshore Sportsman, with navy top folding down inside windshield. Features include self-bailing cockpit, enclosed toilet room, hinged hatch in cabin roof, galley stove area, sleeping accommodations for two in cabin with additional bunk space in shelter area. Hull is displacement type, built-down construction with frames boxed into keel, garboard rabbeted into keel, and floor timbers set above and bolted down through keel. Prices: from $9950.

●

INLAND SEAS BOAT CO.
SANDUSKY, OHIO

24' & 26' "STEEL-CLIPPER" UTILITY AND OVERNIGHTER

Utility and overnighter are available in 24' and 26' models, sleeping 2, and with single or

twin gas engines. Prices: from $5,259 to $8,400.

26' "STEEL-CLIPPER" FLYING BRIDGE MODEL

26' flying bridge model sleeps 4; is offered with single or twin gas engines. Prices: from $8,987 to $10,240.

29' "STEEL-CLIPPER" FLYING BRIDGE MODEL

29' flying bridge model sleeps 4 or 6, and is available with either single or twin gas engines. Prices: from $11,449 to $14,440. Also available is 29' double cabin deckhouse model, $1,067 extra.

36' "STEEL-CLIPPER" FLYING BRIDGE MODEL

36' flying bridge cruiser is available with twin gas or diesel engines giving speeds to 35 mph, and sleeps 6. Prices: from $24,750 to $35,000. Also available is 36' deckhouse model, from $25,750 to $36,000.

42' "STEEL-CLIPPER" FLYING BRIDGE SEDAN

42' flying bridge model will sleep 6 and is offered with twin gas or diesel engines giving speeds to 35 mph. Prices: $34,775 to $46,000. Also offered are 42' double cabin deckhouse model, $36,000 to $47,500, and 42' triple cabin with flush aft deck and master stateroom under, speeds to 32 mph, and sleeping accommodations for 8, from $37,000 to $48,500.

●

KULAS CUSTOM SEA SKIFFS
HOBART AVE., KEYPORT, N. J.

EXPRESS CRUISER

33' mahogany lapstrake cruiser with flying bridge, dinette, galley, private lavatory, hydraulic steering, ice box, and fish well. Sleeps four to six. Power, twin 215 HP Interceptors with 2:1 reduction gears optional. Price, $19,500.

●

HENRY LUHRS, INC.
MORGAN, N. J.

23' OPEN SEA SKIFF

8' beam. Features 109 HP Gray engine, with other power options from 70 to 225 HP; fire extinguisher, toilet, electric bilge pump, anchor. ¾" solid cedar planking fastened with copper rivets to ¾"x1¼" oak frame. Forward freeboard, 50", cockpit depth at stern 34", mahogany bulkhead, chrome plated hardware, bronze shafting, 30 gallon baffled gas tank. Complete hardware and instrument panel. Price with 109 HP engine, $3,320.

23' SHELTER CABIN SKIFF

23'x8', weight 3,000 lbs. Has equipoise propeller, ⅞" mahogany shelter cabin, 6'2" cabin headroom, adjustable forward hatch, flush cockpit deck, ¾" cedar planking, 3"x12" keel, chrome hardware, 30 gal. baffled gas tank, enclosed toilet, electric bilge pump, horn, fire extinguisher, full instrument panel. Price, including 109 HP Gray engine, $3,665. 6 or 12 volt battery system optional.

25' SHELTER CABIN SEA-SKIFF

25'x9' beam. This model is new for 1960 and is basically the same as the 23' model with the added features of sliding windows and a wider stern seat over 6' long. Priced at $4,685, the Sea-Skiff includes as standard equipment, bunks, cushions, head, 125 hp Chrysler engine and hydraulic controls.

28' FLYING BRIDGE SEA-SKIFF

The Flying Bridge model is mahogany planked, has 6'2" headroom, mahogany bulkhead and transom and cockpit decking, self-bailing cockpit, two 40 gal. gas tanks and full panel and controls. Power options from 135 to 225 hp with hydraulic controls. Price with 135 hp Gray Marine engine, $6,090.

Your guide to Marine Electronic Equipment by Raytheon

"Safety makes a happy ship"

RAYTHEON

Fathometer® Depth Finders

show you depth of water • locate best fishing grounds • make boating safer

YOU get a wonderful feeling of confidence and security when a depth finder is part of your navigational equipment. You know at all times exactly how deep the water is under the hull of your boat—information especially valuable at night, in fog, in difficult channels, in unfamiliar waters or when you're attempting to plot your position.

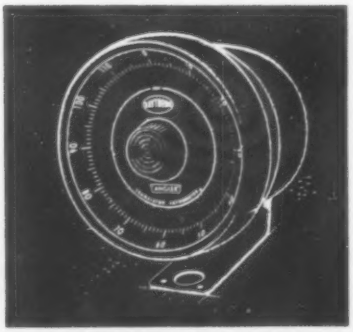
A depth finder transmits an ultrasonic sound beam to the bottom. The time it takes for this beam to reach the bottom and bounce back to your boat is then translated on the indicator into feet (or fathoms) of depth. *Indicating* models report depth by means of a flashing red light. *Recording* units chart a profile of the bottom on calibrated graph paper.

A depth finder will help you find fish, too. It analyzes bottom conditions and tells you when you've reached the area favored by the particular fish you're after. Then, if a large fish or a school of fish swims below your boat, your depth finder will signal their presence.

Raytheon Fathometers take practically all the guesswork out of fishing—help you find best fishing grounds, identify type of bottom.

Raytheon, the world's largest manufacturer of depth finders, makes a wide selection of indicating and recording models, both for permanent installation and for portable self-powered operation. Every Raytheon Fathometer is dependable, built for long life and backed by 58 years of depth finder experience.

Unexcelled for piloting, Fathometers are accurate, show bottom conditions in detail—help you find your way in unfamiliar waters and locate best anchorages.



"Angler" Model DE-708. Portable, transistorized. Powered by self-contained mercury battery ($9.95) or 12-volt boat's power. Range 2 to 120 ft. Size: 6" dia., 5" deep. $125.

To find your nearest Raytheon dealer look in the Yellow Pages under Marine Equipment and Supplies.

1. **DE-716**—New "Holiday" indicating Fathometer. Range: 240 ft. Size 8x7x5½". Large 6½" diameter dial. Brilliant flashing red light. 12 volts. Integral swivel mount. Easily installed. $199.50.

2. **"Explorer" Model DE-705** recording Fathometer. Range 2-120 ft. Size 6½x12½x7¼". Uses 4 amps at 6 volts, 2 amps at 12 volts. Viewing window 3½x6". Chart paper lasts 30 hours. Easy to install. $255.

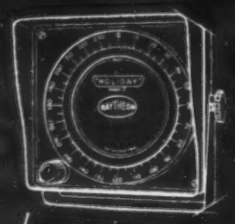
3. **Model DE-706** indicator-type Fathometer. Range: 0-360 ft. or 0-120 fathoms. Size: 9½x 10½x6½". Uses only 35 watts. 6, 12, 32 volts. Easy-to-read dial is 7" diameter. Brilliant flashing red light. $385.

4. **Model DE-707** recording Fathometer. Two models: 0-150 and 150-300 ft. or 0-50 and 50-100 fathoms. 45 watts. Size 11½x12x7¾". 12 or 32 volts. Large viewing window 3½x7" for observation of very fine details. $575.

All prices include transducer and are subject to change without notice.

Facts about Raytheon

- Raytheon is one of the world's largest electronic manufacturers and is the leading maker of marine electronic products.
- The company has the largest franchised dealer organization in the field to sell, install and service your Raytheon marine equipment.
- *Fathometer* is an exclusive Raytheon trade name and identifies depth sounders made only by Raytheon—backed by more than a half century of experience in underwater sound.
- On all the world's oceans, ships are guided by Raytheon radar, protected by Fathometer depth sounders. For the Navy, Raytheon supplies the most advanced sonar, radar and communications systems for atomic submarines.



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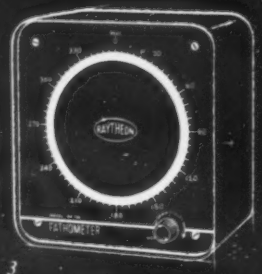


3

4

Radiotelephones

Dependable communications with home, office, other boats, U.S. Coast Guard

If you go offshore, you absolutely owe it to yourself and your family to have a high-quality radiotelephone aboard! A 'phone puts you in immediate contact with the Coast Guard or other boats in case of emergency.

Further benefits include the convenience of being able to talk with your home or office and with other boatsmen. And for your added pleasure, Broadcast band listening is also available.

Raytheon's radiotelephones range in output from 11 to 150 watts. They're dependable, seaworthy—all are engineered expressly for marine use—and they, of course, comply fully with FCC regulations.

Transistorized "package" radiotelephones for smaller boats. Compact, easily mounted, designed for lowest-cost installation, they provide reliable communication at least expense.

Big phone performance at modest cost—the RAY 23. Like all Raytheon 'phones, it is superbly engineered for marine use, has finest quality components and construction.
(Photos, Miami, Fla.)

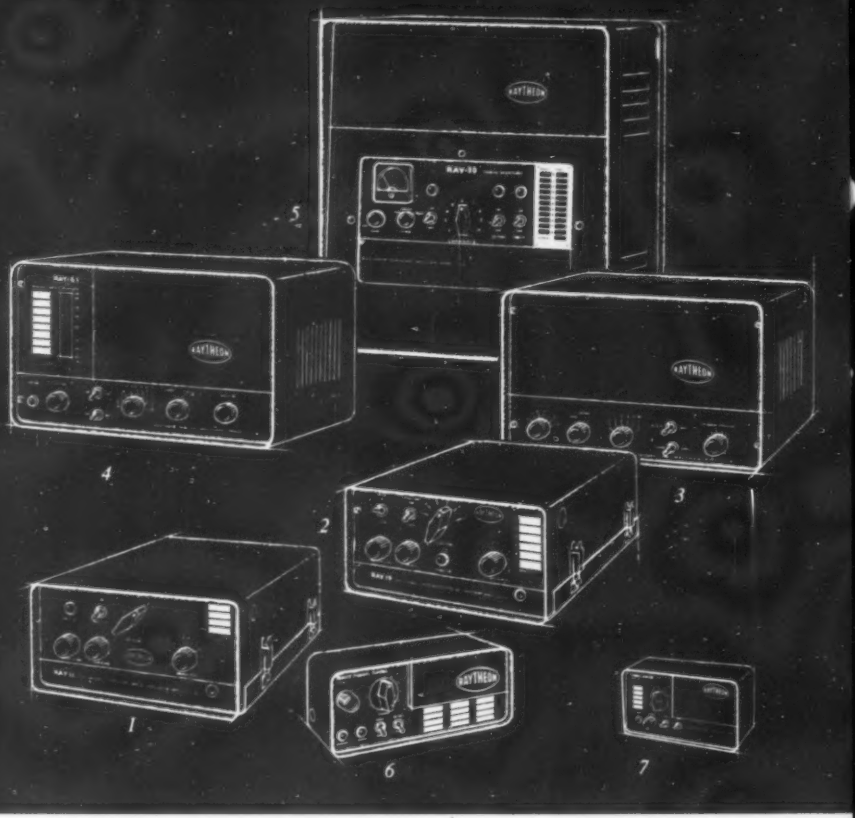
New "Raycom" Citizens Band 'Phone

A new budget-priced radiotelephone operates in the popular Citizens Band and gives you clear contact up to several miles. It's ideal for use on lakes or for near-shore boating, and you can use it on shore or even in a car.

Raytheon's "Raycom" 'phone has a highly stable, crystal-controlled transmitter and receiver with five channels. Ignition noise is limited, and there's a "squelch" control for noise-free standby. The unit is rugged, dependable and built to Raytheon's traditional high standards of craftsmanship.

RAYCOM citizens band 2-way radio. Output 3 watts. Input 5 watts. 5 channels, 12 and 32 volts DC, 115 AC. Superheterodyne receiver, automatic noise limiter, squelch. With microphone, mounting bracket, only $179.50.

To find your nearest Raytheon dealer look in the Yellow Pages under Marine Equipment and Supplies.



1. **Model RAY 11** portable "package" radiotelephone. Output 11 watts. Input 20 watts. 3 channels. 12 volts. Size: 9x5x15". Has transistorized receiver with Broadcast band. Comes with antenna and mounts, crystals for 2 channels and microphones. Has snap-clamp mounting bracket for easy removal and convenient mounting. Very low price $264.50.

2. **Model RAY 19** portable radiotelephone. Same as Model RAY 11 (described above) with 19 watts output, 30 watts input. 5 channels. With antenna and mounts, 2 sets of crystals and microphone. Only $314.50.

3. **Model RAY 23** "package" radiotelephone. Output 23 watts. Input 40 watts. 5 channels and Broadcast band. 6 or 12 volts. Size: 13½x8½x11½". With 3 sets of crystals, antenna, mounts, mike. $389.50.

Model RAY 41. (not shown) Output 41 watts. Input 65 watts. 6 channels and Broadcast band. Approved for party boat operation. 6, 12, 32 volts. Size: 13½x8½x11½". $499.50.

4. **Model RAY 61.** Output 61 watts. Input 100 watts. 7 channels and Broadcast band. 12, 32, 110 volts DC, 115 AC. Size: 13½x8½x11½". Power supply 9x6½x13". Has squelch and automatic noise limiter. Provision for remote control. From $655.

5. **Model RAY 90.** Output 90 watts. Input 150 watts. 8 channels. 12, 32, 110 volts DC, 115 AC. Size: 17x19x10". Power supply size: 12½x9¼x19½". Provision for remote control. Has most-advanced features. From $885.50.

Model RAY 85X (not shown). Includes high-frequency channels for long ranges. Output 85 watts. Input 150 watts. 11 channels. Size and power same as RAY 90. From $1,871.

Model RAY 150 (not shown). Transmitter only. 150 watt output. 5 channels. 32 volts. $740.

6. **Model RCC-1** remote channel changer. Switches up to 10 channels. Can be used up to 25 ft. from radiotelephone. 6, 12, 32 volts. Size 12x6x4½". Works with Raytheon models RAY 41, 61, 90, 85X. With microphone. $155.

7. **Model CM-5** transistorized 5-channel marine receiver. 3 watts audio. Conforms to F.C.C. requirements for monitoring 2182 Kc. Size: 11x6x5½". 12 and 32 volts. $105.50.

Antennas, antenna mounts, crystals. 9 antenna models and 8 types of mounts meet every need. Crystals for all channels are available.

Note: installation and accessory costs are not included in above prices except as noted. (Prices subject to change without notice.)

Radio Direction Finders

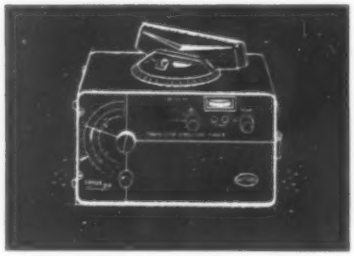
For navigation and entertainment

With a radio direction finder, you can take bearings on radio stations or Coast Guard or aircraft radiobeacons. Plot these bearings on your chart, and you've fixed your position exactly, regardless of weather or poor visibility.

Raytheon's dependable radio direction finders have Beacon, Marine and regular Broadcast bands.

Model 355 (above). RDF with 8-Channel communications receiver. Beacon, Marine, Broadcast bands. 8 crystal-controlled channels from 2 to 4.75 Mc. 12, 32, 110 volts DC, 115 AC. Includes sense, null meter, bearing-width control. Available with remote loop. From $450.

"Ranger" Model 354. Portable, all-transistor, battery-powered. Beacon, Marine, Broadcast bands. Has full watt of output volume. Includes null meter, headphone jacks, built-in battery checker, sensitive ferrite loop. $299.50.



Gas Detector

For gasoline-powered boats

The fumes from just one cup of gasoline equal the explosive power of 15 sticks of dynamite! A gas detector warns you of these fumes by flashing an alarm light long before the danger point. It belongs on every boat that has an inboard gasoline engine.

Raytheon's new transistorized automatic gas detector—insensitive to drafts or changes in temperature or voltage— is the most fume-sensitive unit ever developed. A built-in self-tester assures you complete dependability.

Model 384 automatic gas detector. Fully transistorized with unique solar cell detector head. Size: 6x4½x2". 6 or 12 volts. 3-way mounting. Built-in self tester. $99.50.

To find your nearest Raytheon dealer look in the Yellow Pages under Marine Equipment and Supplies.

New Low-Cost Radar

The ultimate in navigational aids

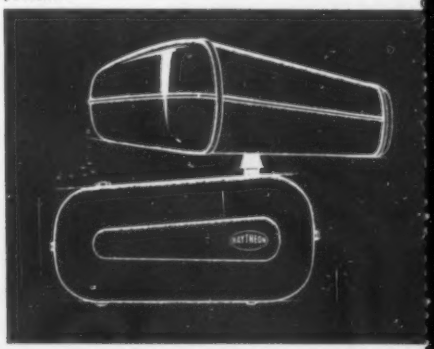
Now, the benefits of electronic piloting are available to the owners of virtually every type of craft. Designed specifically for yachts and small commercial vessels, the new two-unit radar combines rugged construction, dependability and low cost. Its compact indicator mounts anywhere, and its radar scope gives you the same bright clear picture usually found on only the most expensive models. (Excellent definition of channel and river banks and separation of buoys make piloting a breeze!)

The Model 1700 radar indicator mounts on bulkhead, shelf or overhead, and is very compact. The big 7" screen provides almost twice the picture size of competitive units.

The compact, lightweight slotted waveguide antenna is housed in rugged, waterproof fiberglass impervious to salt spray or exhaust fumes. It mounts on any flat surface, is easily accessible for service.

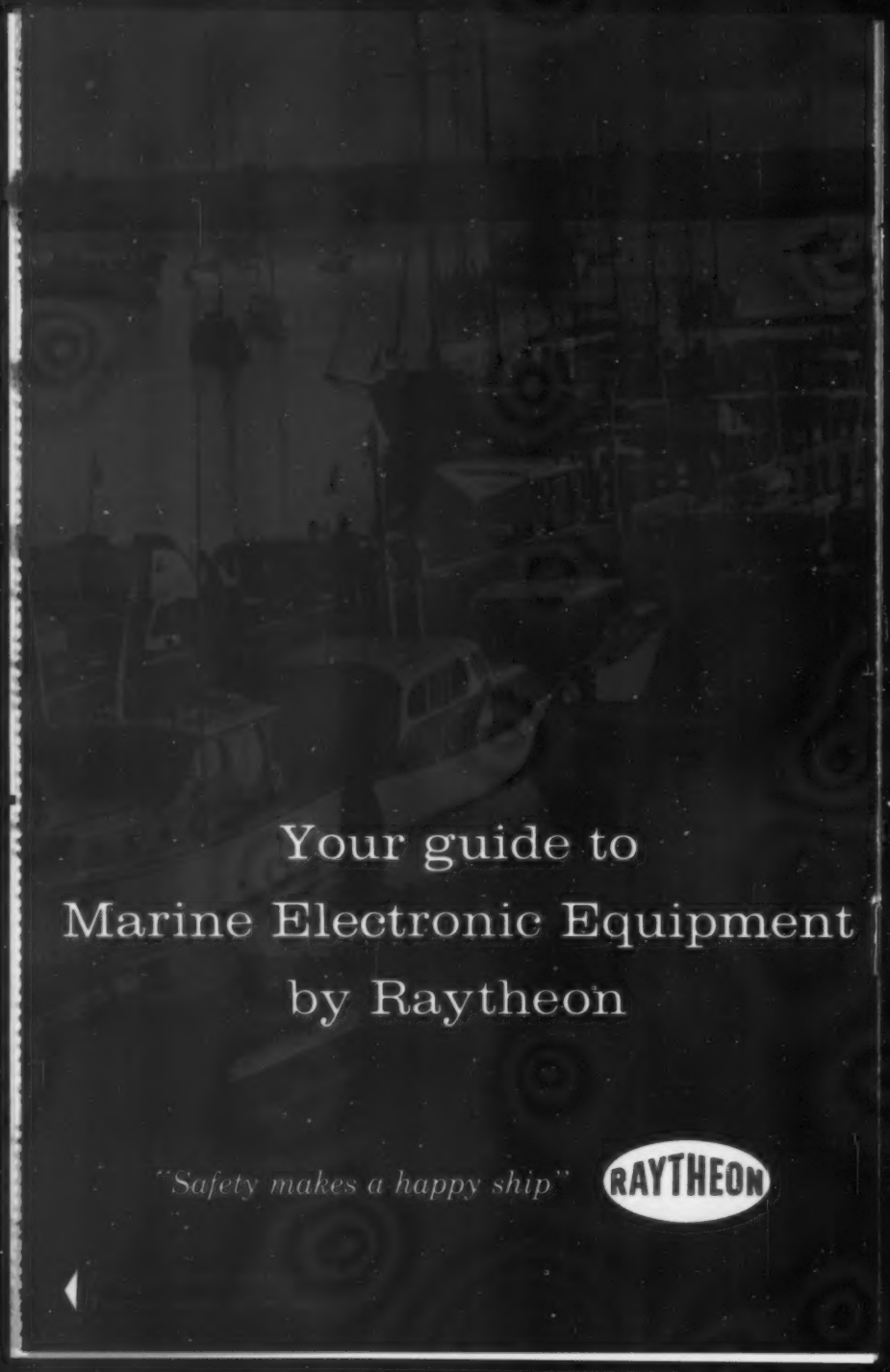
Raytheon's Model 1700 radar is completely new in concept and design. Despite its low cost, it is manufactured to the same exacting specifications that have made Raytheon radars the standard of excellence throughout the world. Maximum range—12 miles; minimum — 20 yards. Range scales with range rings are provided for ranges of ½, 2, 6 and 12 miles. A variety of models are available to operate this radar from all the usual voltages.

Model 1700 radar. Ranges: ½, 2, 6, 12 miles. Minimum range 20 yards. Peak power 7.5 Kw. 12, 24, 32, 110, 220 volts DC, 115 AC. Bearing discrimination 20 yards at ½ mile. Indicator has 7" presentation. Includes brightness, contrast, range selection, focus and range marker intensity controls. Antenna has 1.9° beam pattern.



(Prices subject to change without notice.)

Printed in U. S. A. A-1165



Your guide to Marine Electronic Equipment by Raytheon

"Safety makes a happy ship"

RAYTHEON

LYMAN BOAT WORKS, INC.
1627 FIRST ST., SANDUSKY, OHIO

LYMAN 18′ ISLANDER

18′ over all length. Clinker built of 5 ply, ⅜″ marine plywood planking fastened with silicon bronze nails with rubberized cement in the seams. Special features are steering gear and controls mounted amidships in standard model for fishing facility. 60 HP motor. Accessories include permanent, molded, reinforced mahogany top, with or without sliding hatch and adjustable air vents.

LYMAN 19′ RUNABOUT

19′ over all length, clinker built of 5-ply ⅜″ thick marine plywood planking fastened with silicon bronze nails with seams sealed with rubberized cement. Special features are new windshield and permanent top as above. Power options are 60 and 125 HP gasoline engines.

LYMAN 23′ RUNABOUT

Built especially for open waters. Accommodates seven passengers in forward cockpit and stern seat. Stowage compartments under the stern seat and behind the forward backrest. Forward hatch is standard equipment. Motors optional. 109-165 HP, 25-35 mph. Bunks, toilet, and permanent top are optional.

MANSON BOAT WORKS
BRIDGE RD., SALISBURY, MASS.

32′ CONVERTIBLE SEDAN

32′ boat is available in two models, Sedan and Express Hardtop. Express features a 14′ one-level cockpit, and sleeps 4, while Sedan model is offered in 2 arrangements, one sleeping 4 and the other 6. Twin Chrysler Crowns, 2 to 1 reduction gear, hydraulic clutch control assembly and 12-volt electrical system are standard equipment. Single and twin screw power options are available to 450 HP. Prices: Express Hardtop, Single, $10,-950; Twin, $13,800.

38′ MANSION CRUISERS

38′ boat is offered in two models, Express Hardtop, sleeping 6, and Sedan model, sleeping 6 to 8. Galley has large storage compartments and built-in blower system, while salon features picture window. Standard power is twin Chrysler V8's 177 HP with 2½ to 1 reduction gear with power options available to 550 HP. Prices: Express, $18,900; Sedan, $19,700.

44′ CUSTOM CRUISER

44′ boat is offered on custom basis, in Express, Sedan and double cabin models, sleeping 6 to 8. Features include salon deckhouse, dining area, carpeting, mahogany paneling, electric cooking, refrigeration and automatic oil heat. Standard power is Twin Chrysler 177 hp with 2½ to 1 reduction gear with power options to 550 HP. Price from $23,950.

MERCURY BOAT CO.
PIRU, CALIF.

16′ SABRE

16′ boat features Philippine mahogany construction, and has standard power installation of Gray Marine 118 hp engine capable of delivering speeds to 44 mph. Price, $3460.

18′ MUSTANG

18′ boat has standard power installation of Gray Fireball V8 engine, with choice of 135, 170, or 225 hp, and is capable of speeds to 55 mph. Boat features Philippine mahogany construction. Price, $4540 with Gray 225.

17′ SUPER CUSTOM

17′x6′6″x16″ boat is available in both Custom and Super Custom models, both with mahogany construction, and sides and deck of plastic coated plywood. Power installations are

KEEP YOUR BOAT
beautiful
THE WHOLE SEASON

INTERLUX Marine Finishes are top quality finishes that provide lasting protection as well as beauty. The line is complete . . . a finish and accessories for every place on every size and type of boat. Now besides the well known INTERLUX topsides, deck, interior and bottom paints, there are a number of new INTERLUX Products. They include Poly-Clear Varnish, several kinds of paints as well as touch-up, varnish, and cleaner in spray cans and new special purpose seam fillers. They all make boat maintainance easier and better. Select your needs from the INTERLUX line. Get the best.

Ask for the free INTERLUX booklet, "Painting Helps" and the folder, "NEW INTERLUX PRODUCTS."

International MARINE PAINTS

International Paint Company, Inc.

New York 6, N. Y.
21 West Street

So. San Francisco, Cal.
So. Linden Avenue

New Orleans 15, La.
628 Pleasant Street

Daytona Beach, Fla.
96 Dunlawton Blvd.

WORLD'S LARGEST MARINE PAINT MAKERS

choice of Gray Model 620, Gray Model 70, Gray Model 4-85, or Gray Model 118, giving top speeds to 45 mph. Super Custom standard equipment includes steering unit, 12 gal. gas tank, battery, cushions, Lazyback upholstery, 5-unit instrument panel and wrap-around windshield. Prices, from $1890 to $2890.

18′ HOT DOG

This V-Drive Mercury Custom has a 7′4″ beam and overall length of 18′. Power is supplied by the 3M-400 engine. Like other custom models in the Mercury line, the Hot Dog has a plywood hull with double planked bottom and natural mahogany deck. Two layers of fiberglass protect the hull up to the sheer. Included are complete instrument panel with tachometer, oil, amp, gas and temperature gauges.

TWO FORTY EXPRESS

24′x8′6″x21″ cruiser is powered with Gray marine 225 hp engine, and features Philippine mahogany construction. Boat sleeps 4, has enclosed head, galley, dinette, fire extinguisher, cushions, ventilating window, instrument panel, escape hatch, two 40 gal. gas tanks, cabin covered with vinyl and flush deck self-bailing cockpit. Top speed is approximately 38 mph with standard power installation. Price, $7240.

●

N-VEE CO., INC.
1538 PLACENTIA AVE.
COSTA MESA, CALIF.

RUM RUNNER

16′ inboard runabout of marine plywood has pronounced bow flare, 81″ beam, and modified Vee bottom with 7′ of flat planing surface aft. Power is 1959 Chevrolet Corvette engine developing 245 hp, and speeds of 50-60 mph can be achieved with this installation. Prices: Rum Runner, $2695, fiberglass-covered and resinized exterior and interior; trailer, $295.

RAIDER

17′2″x94″ inboard runabout of Royal weldwood marine fir plywood bottom and sides, completely fiberglassed. Standard engine is 245 hp Chevrolet Corvette with Borg-Warner Velvet Drive transmission. Will take twin Fageol VIP installation.

●

OVINGSTEEL INC.
30 CHURCH ST.
NEW YORK 7, N.Y.

MOTOR CRUISER

115′ custom-designed luxury steel motor cruiser, fully air conditioned, is now being built by Feadship-Holland, which builds wood or steel-hulled luxury cruisers, yachts and auxiliaries from 35′ to 200′. Information upon request.

●

PEARSON CORP.
1 CONSTITUTION ST.
BRISTOL, R.I.

PEERLESS CHALLENGER

21′ fiberglass cabin cruiser with flying bridge is offered for use with either inboard or outboard power. Equipment includes 2 built-in 6′3″ bunks, head, sink, ice box and stove. Other equipment is optional. Prices, to $4450.

●

PEMBROKE BOATS, INC.
EPSOM, N.H.

EXPRESS CRUISER 23

23′x8′x4′6″ express cruiser is offered with either Gray 135 hp V8 hydraulic or Gray 188 hp V8 hydraulic engines and has planking of kiln-dried Philippine mahogany and ribs of steam-bent oak. Deck planking and cabin top are fiberglass-covered, with cabin sides and oak-reinforced transom of mahogany planking. Equipment includes flying-bridge ventilating windshields, 42 gal. gas tank, convertible top, side and stern curtains, marine toilet in private room, stainless steel galley sink, two-burner alcohol stove, refrigeration system, Double Vee berth, helmsman's chair and dining table converting to upper berth. Price, $5600 with Gray 135; $5800 with Gray 188.

EXPRESS CRUISER 27

27′x9′2″x5′ inboard express cruiser is available with choice of Gray Marine engines, 188 hp hydraulic or Twin Gray 109 hp hydraulic. Boat has kiln-dried Philippine mahogany planking and steam-bent oak ribs. Equipment includes battery, Morse single lever power and shift control, flying bridge ventilating windshields, convertible top, fiberglass covered roof, decks and cockpit floor, marine toilet and lavatory in enclosed room, stainless steel galley sink, two-burner alcohol stove, insulated refrigeration system, dinette, cushions converting to double berth, Vee-berths and flush, self-bailing cockpit. Prices, $8600 with Gray 188; $10,000 with Twin Gray 109.

●

PLASTIC FABRICATIONS, INC.
405 W. 25 ST., HIALEAH, FLA.

IROQUOIS

20′ utility equipped with 109 HP Gray engine, two forward berths, toilet, plexiglass windshield, ventilators, lights, convertible top, side curtains, bunk cushions, dock lines, anchor, etc. All fiberglass. Top speed over 30 mph. Price, $5,250.

●

POST MARINE CO.
EGG HARBOR RIVER
MAYS LANDING, N. J.

POST 37′ CUSTOM FISHERMAN

37′ Fisherman has fiberglass, teak, stainless steel and monel construction and standard power of twin 225 HP V8's, which give speeds in excess of 30 MPH. Features include sleeping accommodations for 4 to 6, toilet-shower room with 45 gallons of hot and cold pressure water, 6′ galley with 110V refrigeration, three hanging lockers, dinette and convertible lounge. Safey glass and deck rails are standard. Price, $21,975. Radio and fishing equipment are optional.

●

ROAMER STEEL BOATS
A DIVISION OF CHRIS-CRAFT CORP.,
HOLLAND, MICH.

All craft produced in 1960 will be equipped with "Capac," an electronic device which protects the hull exterior from corrosion, as standard equipment. "Capac" is a miniaturized version of the system developed by Engelhard Industries of Newark for large naval ships.

SPORTSMAN

25′ and 28′ semi-enclosed steel models for cruising or offshore fishing have hardtop styling. 25′ model offers options in power to 215 HP and speeds to 31 mph, while 28′ model has power options to 450 HP and speeds to 36 mph. Also available are 28′ and 25′ Express Cruisers. 28′ model sleeps 4 and has full living facilities, cockpit enclosed with handrails and weather cloths. 25′ Express has one-piece fiberglass top, full cabin facilities and full-width stern seat. Engine options up to 250 HP and speeds to 31 mph are available.

31′ STEEL REGAL

Sedan type boat for all weather cruising, with enclosed deckhouse and picture window view. Regal sleeps 4 or 6 with optional convertible lounge on the bridge deck. Twin V-8 185 HP engines provide speeds to 30 mph.

35′ STEEL EXPRESS CRUISER

Fast moving speedster with low profile and streamlined hull and cabin lines. Colorful interiors and carpeted floors. Speeds to 33 mph are attained by engine options from 360 to 550 HP.

43′ STEEL MOTOR YACHT

Offers large master stateroom under aft deck with twin beds, lavatory and shower. Spacious salon, U-shaped galley, dinette and forward stateroom. Twin Chris-Craft V-8 engines provide 550 HP.

52′ MOTOR YACHT

52′ x 15′ motor yacht has Vee-bottom hull of electrically welded steel. Twin diesels with power options to 600 HP offer speeds up to 24 mph. Boat sleeps 10, has 6′4″ headroom. Features include owner's separate stateroom, guest stateroom, forward stateroom or

Eliminate seasonal sanding, painting, varnishing...add beauty with

NAUTOLEX®
SUPPORTED VINYL MARINE FABRICS

amazing new vinyl surfacing material for decks, floors and cabin tops

Now the elbow grease is gone from boat care. With Nautolex vinyl on your decks, floors and cabin tops occasional mopping keeps your boat shipshape and ready to go. You can apply Nautolex yourself. Just cut to measurement with scissors and apply with special adhesive. Nautolex comes in a variety of patterns and colors. Look for it at your nearest boat dealer or write us today!

THE GENERAL TIRE & RUBBER COMPANY
TEXTILEATHER DIVISION · TOLEDO 3, OHIO

See Nautolex Decking, Flooring and Cabin Topping at Boat Shows and on the boats of such leading manufacturers as:

Chris-Craft Corp.
Higgins Inc.
Owens Yacht Co., Inc.
Crosby Aeromarine Co., Inc.
Crestliner
Cruisers, Inc.
Winner Mfg. Co., Inc.
Thompson Bros. Boat Mfg. Co.

A PRODUCT OF
GENERAL
The General Tire & Rubber Company

crew's quarters, separate galley and dinette. Boat also has carpeted salon and mahogany-finished interiors. Two toilet rooms with showers are optional.

●

SHEPHERD BOATS LTD.
NIAGARA-ON-THE-LAKE
ONTARIO, CAN.

MODEL 110
Model 110 is a 22′ utility with vee-drive installation. Model 110-S available with behind front seats. Power to 275 hp. Adult capacity, 5 or 7. Beam, 7′4″, weight about 3,000 lbs. Price, $5,895.

MODEL 130
This 27′ express cruiser has a beam of 9′4″ and weight of 6,750 lbs., with double planked ½″ mahogany bottom and batten seamed ⅝″ mahogany sides. Price, $15,968.

MODEL 155-4-S
The 30′ flying bridge cruiser sleeps 4, has air foam mattresses, crank windows, power up to twin 215 hp, sound proof cabin and 12′ flush deck. Price, $22,509.

●

STRIKER BOATS, INC.
1550 N. EAST 23rd ST.
POMPANO BEACH, FLA.

28′ STRIKER
Built in Holland and equipped with a Ford 6 Marine Diesel, the 28′ Striker has a beam of 10′5″ and sleeps 4. Many accessories are listed as standard equipment in this sturdy craft priced at $10,900, with engine. Striker offers larger boats which meet the needs of almost every boatman.

●

SUMNER BOAT CO., INC.
334 S. BAYVIEW AVE.
AMITYVILLE, L. I., N. Y.

CRUSADER
28′ cabin cruiser accommodates four. Features "Compoglas" hull, ballast type keel which places weight of engine on keel. Low cockpit deck, horizontal propeller thrust. Will handle 135 HP motors and provides top speed of 20 mph. Priced from $7,990.

EL PRESIDENTE
33′ cabin cruiser with construction features similar to the Crusader, providing Compoglas hull which is non-sinking (Styrofoam flotation). Sleeps six in two separate cabins. Will handle 125 HP engine and provides top speed of 24 mph. Price, $19,500. Also available: 23′ and 24′ boats from $3,950.

●

TRIUMPH MARINE DIV. OF
STORECRAFTERS
BOX 14368, HOUSTON, TEX.

TRIUMPH CABIN CRUISER
The 29′-9′ flying bridge model leads the line of fiberglass-hull cabin cruisers being offered by Storecrafters. Sandwich construction with inner and outer shell contains captured air space for insulation. Foredeck, walk around deck and cockpit floor are of teak; gunwale, cockpit coaming and transom are of African mahogany. The cruiser is powered by twin 200 HP Crusader Marine engines and has a fuel capacity of 140 gallons and water capacity of 30 gallons. Standard equipment includes power plant for refrigerator and range; monel 1¼″ shafts; bronze struts with cutlass bearings; and a long list of other appointments. Price, $15,990. Also available will be a sports fisherman, sports sedan and crew boat. Now on the design board is a 42′ model featuring an all fiberglass hull.

●

TURBOCRAFT DIV.
INDIANA GEAR WORKS, INC.
3119 ROOSEVELT AVE.
INDIANAPOLIS 18, IND.

BUEHLER TURBOCRAFT JET
16′ jet runabout is available with choice of Ford 6, Gray 6 or Interceptor 135 Engine (V-8). Jet unit weighs 93 lbs. and housing is of hard anodized aluminum; impellers and staters of stainless steel and hardware, cadmium plated, galvanized or painted aluminum. Static thrust is 750 lbs.; jet velocity is 65 mph, forward speed 35 mph and water flow 2,250 gals. per minute. Forward steering has deflector gates hinged on either side of jet stream to deflect stream in direction of the desired turn, and inter-use of forward and reverse gates provide adequate control under restricted conditions. Reverse thrust is accomplished by use of gate that drops a concave disc between the jet stream and the nozzle. Water is deflected along the keel. Third gate position blocks off entire jet stream providing neutral. Prices, with Ford 6, $3,365; with Gray 6, $3,390; with Interceptor 135, $3,590.

●

VENTNOR BOAT CORP.
BOX 344, EGG HARBOR CITY, N.J.

VENTNOR 24′
Brand new to the Ventnor Boat line is this Ventnor 24′, with a length of 23′11″, beam 8′6″, and draft 20″. The open cockpit inboard is priced at $3,995, equipped with 110 HP Chrysler and $4,395 with 177 HP Chrysler.

VENTNOR 28′
Length 27′10″, beam 10′2″, draft 2′. Fully equipped for comfortable living aboard. Main cabin is 6′x8′ on one level and forward cabin is private, separated from main cabin by a full height folding door. Wide, walkaround decks are non-skid. Grab rails are mahogany. Large hatch forward. Price with single screw Chrysler Ace 110 HP, $8,495. Other engines available. Twin screw Chrysler Aces 110 HP, $9,995. Power options available.

●

WHEELER YACHT CO.
PATTERSON AVE. CLASON POINT
NEW YORK 72, N. Y.

34′ PLAYMATE SEDAN
34′ sedan has dual control Flying bridge and is powered with twin Chrysler 177 HP Sea V engines. Aft cockpit has stainless steel stern rail and ladder with teak treads to Flying Bridge. On the bow is installed an Ideal combination belly rail, pulpit and anchor windlass.

37′ PLAYMATE
The popular 37′ Wheeler Playmate with convertible sedan and dual control flying bridge is an excellent cruiser and sport fisherman. Speeds to 28 mph and sleeps 8 in four cabins. Twin screw Chrysler V-8 engines, or diesel. Wheeler yachts range from 34′ to 65′.

40′ PROMENADE DECK PLAYMATE
The all new 40′ Promenade Deck Playmate yacht has flush decks from bow to stern, extra large salon with galley, private owner's stateroom with bath and separate guest stateroom all on convenient access levels. Powered with twin 225 HP Chryslers and fitted with large monel tanks.

43′ DELUXE SEDAN
43′ Wheeler Deluxe Sedan yacht with convertible sedan, walk around side rails and dual control flying bridge, available twin gasoline or diesel power with speeds to 26 mph. Has accommodations for crew of two.

55′ PROMENADE DECK YACHT
55′ Wheeler Promenade Deck yacht with two staterooms, 2 baths, protected lounging deck, dinette, electric galley and crew quarters is powered with twin turbo General Motors diesels giving speeds to 20 mph.

●

WHITEHOUSE REINFORCED
PLASTICS CO.
BOX 219, FORT WORTH, TEX.

BAHAMAN
Gunwale length 16′1″, beam 77″. Fiberglass construction and completely instrumented with 85 HP Volvo motor installed. Available in Gold, Red and Turquoise. Price, completely equipped, $2,899.

●

WOLFE PRODUCTS, INC.
71 ELINOR AVE., AKRON 5, OHIO

22′ SEA WOLF
22′x8′4″ clipper bow, lapstrake sea-skiff with 95 hp Chris-Craft marine engine. Includes: head; seats; canvas; 6-volt electrical system; heavy duty battery; 2-30 gal. fuel tanks; 1″ bronze shaft; necessary stern gear; instrument panel and instruments; built-in bunks; electric bilge pump; necessary hardware; many accessories; cabin fittings, etc. Built of ⅝″ marine plywood

Wood boats—a tradition of the sea

If your boat is something more than transportation to you—if it's far-away places; and sleeping under stars; and sun, and breeze, and spray—then your boat is a part of you that can't abide artifice.

Which is why your boat is probably built of wood. Wood is beautiful; wood is buoyant; wood is resilient and strong—12 times stronger than an equal weight of steel.

Today, the most seagoing wood is Weldwood® Royal Marine Plywood, a new kind of plywood expressly engineered for boats.

Weldwood Royal Marine Plywood makes safe boats. It makes beautiful boats. It makes the kind of boat you want to own. Make sure the boat you buy is made of

Weldwood Royal Marine Plywood

United States Plywood, 55 West 44th Street, New York 36, N. Y.

DUNPHY HULLS ARE BUILT OF WELDWOOD ROYAL MARINE. The "Wayfarer"—a 19′ runabout that sleeps three—has Royal Marine Plywood transom, strakes, and garboards.

sides and ½" marine plywood bottom planks on steam bent oak frames on 6" centers. Priced in the $3,000 class.

●

ZUBACK'S BOAT & MOTOR WORKS
HGWY NO. 35, MORGAN, N. J.

22' STRIPPER SEA-SKIFF
Length 22'2", beam 9'. Lapstrake construction is bonded with Sea-Skiff synthetic rubber base sealer. Equipped with Deluxe Jones Instrument Panel, horn, running lights. All hardware chrome on bronze Algonac built, bow chocks, bitt with anchor line hole, hollow base cleats, deck plates. One folding helmsman seat. Price with Chrysler Ace 110 HP, 230 cu. in. marine engine, $3,990. Wide choice of power plants available.

NEW ANNOUNCEMENTS

●

BRISTOL BOATS DIV.
ALLEN QUIMBY VENEER CO.
BINGHAM, ME.

MARLIN CRUISER
Standard equipment on the 42' Marlin Cruiser Fisherman includes Chrysler Imperial Engines with 2.04 to 1 reduction gear, 20" x 20" Federal Propellers, Stewart Warner Instrument Panel, Danforth Anchor, foam rubber mattresses and cushions with Vivatone or plastic covering, and a long list of extras listed as standard equipment. Prices start at $28,-600.

DOLPHIN CRUISER-FISHERMAN
33' cruiser-fisherman sleeps 2 or 4, according to model. Available with Chrysler or Gray engines, from 110 HP to 225 HP, boat has berths, separate head, galley with stainless steel sink, icebox, dinette and self-bailing cockpit. Prices, from $14,300. 36' cruiser-fisherman, from $20,-600.

BARRACUDA CRUISER
25' cruiser has 2 berths, separate head and galley, foam rubber mattresses, icebox, stainless steel sink and full length bottom and side panels. When powered with engines of 100 HP can attain speeds to 25 mph. Boat is offered with variety of Gray, Chrysler and Interceptor engines, and is also available in Barracuda Fisherman model. Accessories are available.

BONITO
21'2" x 7'9" boat is available in both inboard and outboard versions. Standard inboard power is Gray 100 HP. With twin 36 HP outboards boat can attain speeds to 30 mph. Boat sleeps 2.

●

CRUIS ALONG BOATS, INC.
SOLOMONS, MD.

PELICAN 22
Length 21'7", beam 7'9". Panels of top-grade marine plywood provide a hull free of leak-joints. All interior wood is treated for protection against dry rot. All trim is solid mahogany. Fastenings are silicone bronze screws and bolts. Cabin is completely finished and has roomy sleeping facilities. Enclosed head.

COURIER 24
Length 24', beam 8'11". Ideal in strength, maneuverability and seaworthiness. Hull bottom and topsides utilize ½" AA Apco Super Marine plywood, backed by sturdy seasoned white oak. Contains many luxury features not generally found in other cruisers.

GULFSTREAM 28
Rugged and built for comfort. Completely equipped cabin is light and airy with big picture windows that open. Sleeps 4. Self-bailing cockpit, wide walk-around decks with toe strip and hand rails. Mahogany planked, batten seamed hull. Ideal for blue water fisherman.

GULFSTREAM 31
A larger version of the Gulfstream 28'. Features same basic mahogany planked, batten seamed hull but with a fisherman's flying bridge of durable fiberglass. Self-bailing cockpit measures 10' x 11'. Fuel capacity is 112 gal. Single or dual engines are optional.

EL DORADO 33
Three models of the 33' Cruis Along Boats are offered: the El Dorado, Custom and Sedan. The El Dorado sleeps 4; the Custom and Sedan include a davenport that converts to berths to provide comfortable sleeping space for 2 more. Self-bailing cockpit measures

144 sq. ft. and features mahogany-capped railing with gates on both sides. Completely equipped cabin is 16'9" long with 6.3" headroom and spacious windows. Wide walk-around decks are guarded by optional chrome-plated stanchions and rails. Fuel capacity is 112 gal.

●

DAWES PRODUCTS CO.
20850 ALBERTA AVE.
SUNNYVALE, CALIF.

DAWES INBOARD CLIPPER
The Dawes 16' Inboard Clipper has the motor mounted forward giving maximum riding comfort. Constructed of marine plywood and entire boat clad in fiberglass. Optional power available. Price, $2,950.

●

INLAND SEAS BOAT CO.
SANDUSKY, OHIO

32' "STEEL-CLIPPER" FLYING BRIDGE MODEL
32' flying bridge model sleeps 6 and is offered with single or twin gas engines. Prices: from $15,720 to $19,900. Also offered is double cabin deckhouse model, from $17,000 to $20,000.

●

C. P. LEEK & SONS
LOWER BANK, EGG HARBOR, N. J.

30' SPORT FISHERMAN
The 30' Sport Fisherman is a scaled-down version of the popular 40' Pacemaker Cruiser, and incorporates many of the features of the larger boat. Jersey Sea Skiff design and Carvel built hull are featured as in all Pacemakers. Available in choice of 11 engine models, ranging from 125 HP Chrysler Crown D.D. to twin 225 HP Gray V-8's 1.5 to 1 R.D. Basic 30' model sells for $6,695.

30' EXPRESS CRUISER
The 30' Express Cruiser has sleeping accommodations consisting of two large forward berths and two additional berths made by converting the Formica dinette. Hull is of Jersey Sea Skiff design and Carvel built. Beam is 10'2". Available in 11 engine models.

●

THE MATTHEWS CO.
PORT CLINTON, OHIO

MATTHEWS BOATS
42' x 13' x 3' boat in five models, all available with single or twin screw and a choice of gas or diesel engines capable of developing engine speeds up to 27 mph. All models are built for salt water use. Convertible Sedan sleeps 2, has 2 toilets and features folding partition that permits opening deckhouse and aft cockpit into one area almost 20' long. Flying Bridge Double Cabin has wide-around side decks and sleeps 6. Deluxe Sedan sleeps 6, has 2 toilets and fixed partition between deckhouse and aft cockpit. Sport Fisherman sleeps 5, and has side coamings aft on both sides of cockpit cut away flush with decks to permit easier fishing and has special fishing equipment. Martinique Express sleeps 4 or 5, has 2 toilets and is available with either cancas-top or hardtop. Newest development in the line is a 52' Flying Bridge Cruiser with a beam of 14'6" and a draft of 3'5". Accommodates 8, equipped with electric galley, pressure water system, hot water with shower bath, hard top, teak decks and other refinements. Production on this new larger size will be limited.

●

MAY CRAFT MFG. CO., INC.
RIVER RD.
MAYS LANDING, N. J.

23' MAY CRAFT SPORTSTER
Length 23', beam 8', draft 22". May Craft has resumed production of their complete line of inboard runabouts and cruisers. The Sportster is powered by a Graymarine 100 hp attaining speeds to 48 mph. All trim and cockpit are richly finished in Philippine mahogany. This smart runabout has the practicability of the utility craft and is ideal for skiing, fishing or cruising. A semi-enclosed Sport Cruiser and an Express Cruiser are offered in the 23' length.

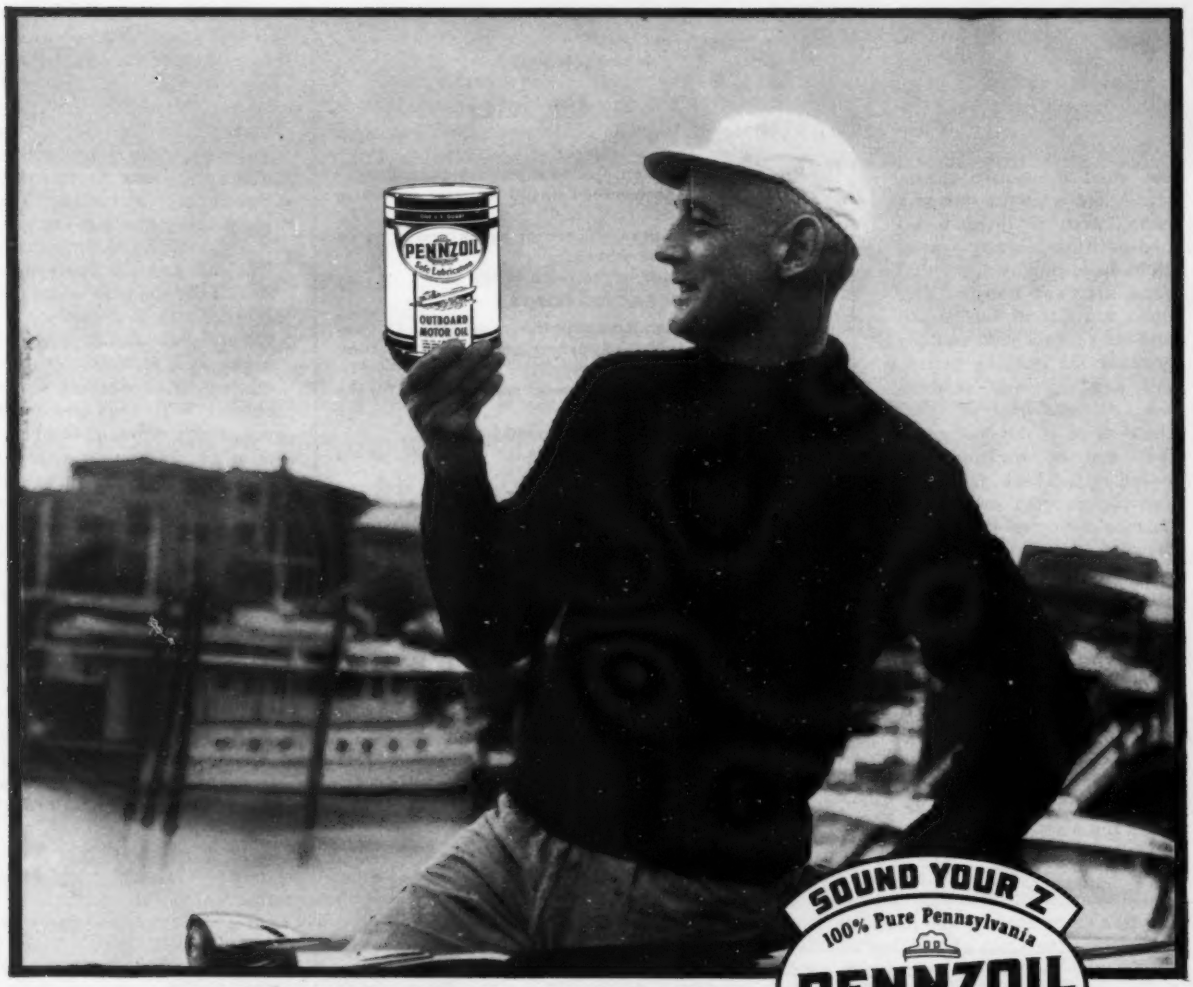
25' CUSTOM EXPRESS CRUISER
Beam 8'. Graymarine 100 HP gives speeds to 32 mph. Complete galley and Dinette with Formica tops including stove, sink, fresh water, ice box and ample storage space. Complete accommodations for 6 persons. For privacy the head is completely enclosed with full length door.

Skippers, coast to coast, discover outboard oil that keeps plugs clean

You'll see the proof for yourself in the cleaner, smoother, more powerful performance you get from *your* outboard with Pennzoil.

This pure Pennsylvania oil works deep in the vital parts of your outboard where it can stop trouble before it starts. Minimizes carbon and other deposits that impair efficiency. Puts an end to bearing failure. And keeps plugs, pistons and rings cleaner at all speeds!

Pennzoil Outboard Motor Oil is ideal, too, for power mowers, chain saws, washing machines, some motorcycles and *all* 2-cycle engines. Comes in bottles or screw-top and sealed quart cans. Ask for Pennzoil today.



PENNZOIL OUTBOARD MOTOR OIL

SOUND YOUR Z
100% Pure Pennsylvania
PENNZOIL
Safe Lubrication

SAILBOATS

THE THRILL OF SAILING is a sensation that is hard to beat. The feeling of satisfaction after bringing your boat to anchor in a strange harbor, utilizing only the power of the wind, your own skill, ability, and knowledge of tides and currents is one of the greatest joys of boating. There is a great range of sailing craft, from the sailing surfboard, such as POPULAR BOATING's home-built *Sandpiper*, featured in last June's issue, to large ocean-racing "gold platers" requiring a large crew and many thousands of dollars in initial investment. If you're interested in getting started in sailing, the listings in this directory will serve as a comprehensive guide to the types of craft available.

What Kind of Boat to Buy?

Now that you've decided to try sail, what is the ideal boat for your purpose? This depends on whether you plan to race, or cruise in a leisurely fashion, whether you will sail with only one or two companions, or will want to accommodate the whole family. If you want to race, enquire at local clubs and find out what the active classes are. There is no use having a racing boat if there is no competition. Many yacht clubs have dinghy fleets that race all year round. The dinks are lots of fun to sail and make excellent training grounds for learning tactics, sail handling, and seamanship. In addition, the purchase price is not too great, they can be trailered and stored in the back yard, and you can do your own maintenance during off-hours. For the man with limited time to devote to his hobby, the day sailer, with a small outboard motor for auxiliary power to get home when the wind drops, is a good choice.

Do You Like to Cruise?

A cruising sailboat in the 25 to 40 foot class represents a considerable investment, and unless the purchaser contracts for a new stock boat, it must be chosen carefully. The services of a competent marine surveyor should be engaged. He is able to detect the signs of structural faults that can cause trouble later, and he can save much expense and heartache for a really small fee, considering the years of training and experience he brings to the job. The usual survey fee is approximately 1% of the purchase price of the vessel.

The investment in a cruising sailboat is also an investment in many years of family fun, since the cruising man is usually also a family man. Vacations can be planned so that new harbors, historic ports, and remote, out-of-the-way islands can be explored. For family boating, the sailboat should be roomy enough to accommodate the crew comfortably, have adequate room for the ship's gear, plus a cockpit large enough to seat everyone comfortably during long cruises. If children sail with you, make sure that there are secure life-lines around the deck. Also a forepeak with a means of closing it off will ensure proper rest for youngsters when the adults are entertaining.

Most yacht clubs have a program of handicapped racing for cruising sailboats, so the cruiser is not excluded from competition. If the skipper and crew are experienced enough, and your boat can pass the race committee requirements, you can participate in the classic offshore races such as the Bermuda, Nassau, Mackinac, Ensenada, and Honolulu events.

Hull Form and Sail Rigs

Hull shape and rig plays a large part in the performance characteristics of any sailboat. As a rule, the longer the craft's waterline length, the faster she will be over a boat about the same displacement but shorter waterline. The sloop and cutter rigs are generally more aerodynamically efficient, and are easily handled if the sail area is not too great. Ketch and yawl divide sail area into smaller units and make sail handling easier when a lot of working sail is carried. With yawl and ketch rigs, many different combinations of sail can be used so that the craft balances well when shortened down. The mizzenmast of a split-rig boat can also be used to set a mizzen stay'sl when racing. The schooner rig still is popular with traditionalists, and no sight is as beautiful as the shippy gaff schooner gliding in to drop anchor against the full glory of a summer's sunset. To really get the feeling for how a boat will suit your requirements, the best idea is to charter one of the approximate size and general characteristics of your "ideal" craft. Here is where your local yacht broker can be of great help. Contact him and look through his files of photographs for charter possibilities. In the pages that follow will be found many handy and able sailboats for your consideration.

In this manner you can combine the pleasure of a family vacation with practical shopping around. After you have decided whether a craft similar to the one you have chartered will fill your needs, your broker can be of great help in tracking down such a craft. In addition, he can help with transportation and insurance problems.

CHECK LIST FOR THE SAILBOAT BUYER

- ☐ Is this boat suitable for your local waters?
- ☐ Suitable for longer trips you may want to take?
- ☐ Is she similar to craft you have already sailed so that you (and your family) will feel comfortable about your ability to handle her?
- ☐ Does the builder have a well-established reputation?
- ☐ Can the dealer refer you to other satisfied owners?
- ☐ Can the boat be sailed singlehanded?

HULL

- ☐ Have hulls of this type proved stable and seakindly in your local waters?
- ☐ Have the materials (wood, metal or plastic) stood up well in your area?
- ☐ Is it easy to repair and maintain?
- ☐ Do the boats have good resale value?

RIGGING AND SAILS

- ☐ Have rigging materials (stainless steel, monel or plow steel) stood up well in your area?
- ☐ Has allowance been made for rigging adjustments?
- ☐ Can her sails be handled easily by your family or regular crew?
- ☐ Are her sails (cotton, dacron or nylon) made by an established sailmaker?
- ☐ Are sails included in the price of the boat?

RACING BOATS

- ☐ Are there enough boats of the same class in your area to provide interesting and continued competition?
- ☐ Do hull, sails and rigging meet specifications for the class?
- ☐ Is she equipped with light racing blocks?
- ☐ Does she have enough sails to meet all racing requirements?

CRUISING BOATS

- ☐ Are cockpit and cabin accommodations adequate for family entertaining and cruising?
- ☐ Can cabin be kept warm in cold weather, well-ventilated and screened when it's hot?
- ☐ Is the boat "fully found," or will she require addition of a great many items of accessories and equipment?
- ☐ Does she have an auxiliary engine (gasoline or diesel)?
- ☐ Are good service and repair facilities for the engine available in your area?
- ☐ In a blow, will she be safe and reasonably comfortable for you and your family?

apelco

Gives you greater pleasure and performance

"PACKAGED POWER"

AE-25M, 5-channel marine radiotelephone—surging electronic talk power—sealed in protective metal and . . . as part of the "package" . . .

"Power-mate" matching antenna for free-flow transfer of set power into strongest signals! And Apelco small-craft radios do not require expensive ground plates!

With your package Apelco also includes...

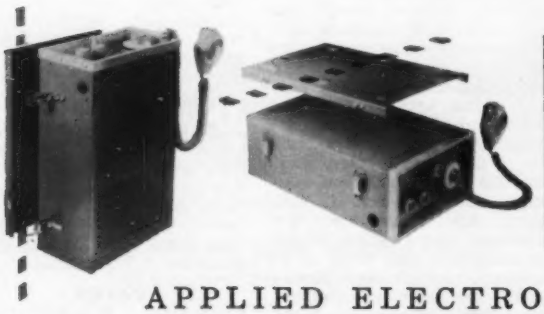
- Precision-ground quartz crystals, (4) for two channels.
- High-quality press-to-talk microphone with coiled cord.
- "Power-mate" antenna complete with sturdy deck fitting. Antenna is easily removed.
- Snap-clamp mounting plate. Stays in craft—permits vertical or horizontal set position. Remove set when not in use. Just snap-in, snap-out.

Other features...

● 30 watts power input ● 5-crystal controlled channels, transmitter and receiver plus tunable standard broadcast band ● Transistorized circuitry for low current drain, added performance ● Automatic noise limiter helps suppress ignition noise ● Built-in loudspeaker

The "package" 299.50

SLIGHTLY HIGHER IN SOME AREAS



APPLIED ELECTRONICS COMPANY INC.

213 East Grand Ave., South San Francisco, Calif.

AEROMARINE PLASTICS CORP.
BOUNTY DIV.
BOUNTY DOCK, SAUSALITO, CALIF.

BOUNTY II
40'10" x 10'3" x 5'9" all-plastic boat is now available with sloop or yawl rig. As sloop, sail area is 661 sq. ft.; as yawl, sail area is 722 sq. ft. Both models sleep 6. Features include a new, lightweight aluminum mast.

AERO-NAUTICAL, INC.
97 GARFIELD AVE.
COPIAGUE, L.I., N.Y.

CYGNET
The Cygnet weighs only 85 lbs., fully rigged 109 lbs. Length, 8'4"; beam, 53¼"; sail area, 48 sq. ft. The Cygnet has a simple Gunter rig for easy handling, a completely enclosed lever operated centerboard and will carry three adults or 5 or 6 children safely with plenty of free-board. Standard equipment includes dacron sails, centerboard, oarlocks, and bow tow ring. A 6'10½" dinghy and a sailing Catamaran are also offered by Aero-Nautical.

ALCORT, INC.
BOX 1345, WATERBURY, CONN.

STANDARD SAILFISH
11'7½"x31½" centerboard catboat. Sail area 65 sq.ft. Sail materials, cotton, nylon. Weight of hull, 82 lbs. Finished in light gray with contrasting stripe. Carrying capacity 300 lbs. Price, kit, $187 including deck, bottom, stem block, inner keel and deck beams all pre-cut and ready for assembly. Frames, daggerboard, trunk and mast block are complete sub-assemblies. Rudder, daggerboard, curved sides, guard rails, tiller, etc., are preshaped. Sail is included. Mast and spars are special aluminum alloy. All necessary hardware is supplied. Paint kit with paints and varnish in proper proportions is optional at slight extra cost. Boat, $297.

SUPER SAILFISH
13'x35½"x7" centerboard catboat. Sail area 75 sq. ft. Weight of hull 98 lbs. Sail material cotton, nylon. Price, kit, $217 including deck, bottom, stem block, inner keel and deck beams, all pre-cut and ready for assembly. Frames, daggerboard trunk and mast block are complete sub-assemblies. Rudder, daggerboard, curved sides, guard rails, tiller, etc., are pre-shaped. Sail is included. Mast and spars are special aluminum alloy. All necessary hardware is supplied. Paint kit, with paints and varnish in proper proportions, is optional at slight extra cost. Boat, $334 complete. Super Sailfish Mk II, all-fiberglass, factory built, $374.

SUNFISH
13'x3'11½"x7½" centerboard catboat. sail area 75 sq. ft. Sail material cotton, nylon. Marine plywood and Philippine mahogany. Finished in light green, light blue, light gray or bright red. Weight of hull is 135 lbs. and carrying capacity is 460 lbs. Mast and spars are special aluminum alloy, with no standing rigging. Price, kit, $268 including deck, bottom, stem block, inner keel and deck beams are pre-cut. Frames, daggerboard trunk and mast block are complete sub-assemblies. Rudder, daggerboard, sides, coaming, tiller, etc., are preshaped. Sail is included as standard equipment, tailored from preshrunk white cotton. Hardware and fittings are supplied with each kit. Finishing kit, with paints and varnishes in proper proportions is available at slight extra cost. Boat, $395. Sunfish, all-fiberglass, factory built, $447.

AMERICAN MARC INC.
MARINE DIV.
1601 W. FLORENCE AVE.
INGLEWOOD, CALIF.

MARC C-24
Fiberglass over wood construction cuts maintenance problems on the 24' Weekender. Five watertight compartments provide added safety. 5'9" headroom. Completely equipped. Price, including auxiliary power, $6,495.

MARC C-30
Length 30'6", beam 8'. Sloop sail area 400 sq. ft. Yawl sail area 448 sq. ft. 6' headroom. Completely equipped. Dacron sails. Price, including auxiliary power, $7,995 for the Sloop version; $8,995 for the Yawl version. An 18' day sailor is also available at $1,995.

THE ANCHORAGE, INC.
57 MILLER ST., WARREN 3, R.I.

CLASS D DYERESIN DINK
10'x4'3". Centerboard. Sail area 66 sq. ft. Built of reinforced fiberglas and polyester resin. Established racing dinghy class, also used for tender service. All spars of sitka spruce, mast two piece to fit within hull, stainless steel rigging with adjustable shrouds, outhauls, etc. Price $666 singly, 20 per cent under 1958-59 prices before modifications, with sail. Price includes oarlocks, fender guard, rudder, tiller, etc. Artificial flotation crating $17. Also available, 9' Dyeresin Dhow, from $495 to $595; and 7'9" Dyeresin Dhow Midget, $440.

12' INTERNATIONAL
12'x56". Centerboard 4'. Sail area 72 sq. ft. Reinforced fiberglass and polyester resin construction. Aluminum spars, stainless steel rigging, Hifield adjusting levers. Price $925 with sail rigging, centerboard, rudder, tiller and artificial flotation.

SOJOURNER CLASS
32'10"x29'4"x10'3"x4'6". Sail area 499 to 713 sq. ft. Built of fiberglas and color pigmented, polyester resin including hull, cabin decks, and cockpit sole. Mast (hollow) boom and jib boom, sitka spruce; standing rigging, stainless steel; running rigging, nylon, dacron, or linen. Sleeping accommodations for 4 to 6 people. Has 6'2" to 6'9" headroom. Has cooking facilities and one head. Price $25,000 and up.

BALCO YACHT CO.
P. O. BOX 4045, DUNDALK 22, MD.

SEA DREAM
25' W.L. auxiliary sloop, with 4'6" draft, solid fiberglass hull, impregnated color, up to ¾" thickness, solid mahogany cabin and trim, 3,000 lbs. ballast, Sitka spruce mast and booms, marine plywood interior, bronze fastenings, canvas or fiberglass covered cabin top, 375 sq. ft. sail area, airfoam cushions, lights, bell, horn, life preservers, dry chemical fire extinguishers, stainless sink and water tank, lavatory, racks, lockers, hardware, instruments, controls, ventilated bilges, stainless rigging, chrome plated deck fittings, anchor, rubber mounted 60 HP (or smaller) engine. Available in any state of completion desired. Price, $10.945.

BURGER BOAT CO., INC.
MANITOWOC, WIS.

AUXILIARIES
Manufacturer offers auxiliaries in steel and aluminum, both standard and custom models. Auxiliaries include ketches and racing yawls. Company also offers custom building of steel and aluminum cruisers.

BURR BROTHERS BOATS
FRONT ST.
MARION, MASS.

FORD 36' CUTTER
Line of cruising and racing auxiliary sailboats features the Ford 36', designed by Fred S. Ford, Jr., available in several rigs. Boat is 36' x 10'9" x 4" with centerboard up, and has cruising accommodations for 6. Features include enclosed toilet room and large galley. 4100 lbs. lead ballast is carried and planking is everdur-fastened Philippine mahogany over white oak framing. Decks are fiberglass covered. Prices: $21,-661, cutter-rigged; $22,711, yawl-rigged.

CAPE COD
SHIPBUILDING CO.
WAREHAM, MASS.

CAPE COD BULL'S EYE
L.O.A. 15'8½", L.W.L. 12'6¾", beam 5'10", draft 2'5". Herreshoff design sloop, fiberglass construction. Bronze hardware, stainless steel rigging. Mahogany, varnished trim, aluminum spars with roller reefing gear.

CAPE COD RHODES 18
L.O.A. 18', L.W.L. 16', beam 6'3", draft 4' with centerboard down, sail area, 162 sq. ft. Sloop rig with overlapping jib, permanent backstay, aluminum mast, roller reefing. Also available in keel model.

RAVEN
L.O.A. 24'2", L.W.L. 21'7", beam 7', draft 7" with centerboard up, 5'4" with centerboard down. Roger McAleer design, molded

ANOTHER WAY RCA SERVES YOU THROUGH ELECTRONICS

"New from RCA!"

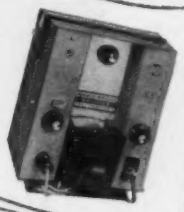
A Complete Line, Advanced Design, Marine Equipment

for every boat... for every budget

Whether you're a seasoned sailor or a week-end outboarder, RCA has the equipment to fit your boating needs and budget. Now you can pick and choose from a completely new line of economically priced electronic aids that deliver big boat performance—add a new measure of fun and safety afloat. See your nearest RCA Radiomarine Dealer for all the facts on this sensational array of marine equipment—from budget priced depth indicators and direction finders to radiotelephones and radar! They're all RCA dependable!

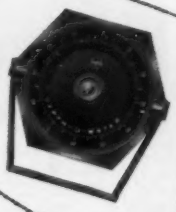
CRUISEPHONE
(transistorized radiotelephones available in 35 and 65-watt models)

RADIO-PHONE
(compact superhet model for Citizens' Band operation)

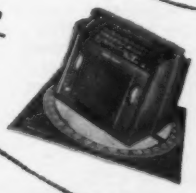


PORTAGRAPH
(quality depth sounding equipment for the larger boat)

DEPTH-O-METER
(portable flashing depth indicator for the fisherman and week-end navigator)

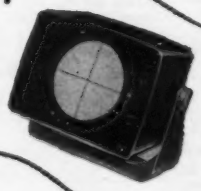


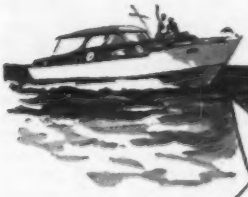
RADIO-HOMER
(transistorized direction finder, 3-band receiver—carry it ashore as a portable radio)



PORTAGUIDE
(big ship performance in a portable, transistorized direction finder, 3-band receiver)

SMALL CRAFT RADAR
(newest electronic aid for safer boating)





See the complete line of RCA Marine Equipment at the Boat Shows

RCA

Radiomarine

RADIO CORPORATION of AMERICA
COMMUNICATIONS DIVISION
CAMDEN, N. J.

Tmk(s) ®

Radio Corporation of America
Communications Division
Dept. D-345, Building 15-1, Camden, N. J.

Please send me all available information on the RCA 1960 marine electronic aids checked below:

- ☐ RCA Cruisephone
- ☐ RCA Radio-Phone
- ☐ RCA Portagraph
- ☐ RCA Depth-O-Meter
- ☐ RCA Radio-Homer
- ☐ RCA Portaguide
- ☐ RCA Small Craft Radar

NAME _____

ADDRESS _____

CITY _____ ZONE _____ STATE _____

one-piece fiberglass hull. Color molded in hull, topsides white; deck grey; interior, grey pebble grain.

MERCURY
15′ Sparkman & Stephens design. L.W.L. 13′10″, beam 5′5″, draft, centerboard down, 39″. Sail area, 119 sq. ft. Fiberglass construction. Sheer is guarded with an extruded Vinyl guard. Sold with or without sails.

23′ CAPE COD MARLIN
L.O.A. 23′, L.W.L. 17′11″, beam 7′2″, draft 3′3″. Headroom 4′6″. Mast 32′. Herreshoff design sloop. Hull and deck, one piece molded fiberglass construction. Vinyl rubstreak with mahogany toe rail. Fiberglass self-bailing cockpit. Outboard or inboard auxiliary engine available for auxiliary power. Has head, two water tanks, sink, pump, ice box, 2 berths with mattresses, bilge pump, lockers, lazaret, bookshelves, anchor, stove, and lights.

●

RICHARD D. CARLSON
SHELTER ISLAND, N.Y.

CUTLASS SLOOP
Delivered completely painted and varnished in colors of owner's choice, the Cutlass Class sloop has ⅞″x⅞″ edge grain mahogany planking and sleeps 2. The standing rigging is 1x19 stainless steel with swaged terminals and bronze or stainless steel turnbuckles. The L.O.A. is 23′7″, beam 7′1″ and draft 4′. Priced at $4,950 for major East Coast ports of entry less sails, the Cutlass has a list of extras to suit individual owner's requirements.

●

CASCO BAY BOATS
4 CHURCH ST.
WOODSTOCK, VT.

KITTEN
Moulded fiberglass racing dinghy. 9′4″ overall. Hard or Ratsey dacron sails, weight 80 lbs. Complete with oars, and all equipment, $325.

8′ CLAMSHELL RACING PRAM
Plywood construction with hard sails of dacron. Complete with oars and all gear and painted your color, $175. Same model of blue Alsynite fiberglass sheet, $230. Also offered is a Quahog racing pram, similar, but with 55 sq. ft. hard dacron sail, painted your color, $230.

●

CATAMARAN CORP.
OF AMERICA
928 GRAND AVE.
KANSAS CITY 6, MO.

TIKI
12′ catamaran is available in both sail and power versions and is convertible to iceboat. Extreme beam is 6′, draft (board up) 4″, draft (board down) 2′11″. Boat has sail area (mainsail and jib) of 139 sq. ft., and may be used with 80 sq. ft. spinnaker. Construction is of molded fiberglass, color impregnated, with aluminum spars and stainless rigging. It is recommended for use with motors up to 25 hp, which will deliver speeds to 23 knots. Under sail speed will reach 15 knots. Prices: power model kit with windshield, $595; complete sail version less sails, $995.

●

CUSTOMFLEX, INC.
3409 SOUTH ST.
TOLEDO 9, OHIO

PENGUIN
11′5″ x 4′8″ fiberglass sailboat has sail area of 72 sq. ft. and Sitka Spruce mast and boom. Rigging is of stainless steel, and boat has mahogany rudder, tiller and centerboard, with floor boards of mahogany plywood. Price: $495, less sails. Also available as bare hull only.

16′ COMET
16′ x 5′ fiberglass boat has 136 sq. ft. sail area, Styrofoam flotation and all stainless steel hardware. Centerboard is bronze. Price: $1,150, less sails. Also available as bare hull only, $590.

18′ INTERLAKE
18′ x 6′3″ fiberglass sailboat has flotation, all stainless steel rigging, and all mahogany trim. Sail area is 175 sq. ft. Price: $1,595, less sails. Also available as complete kit, or bare hull only.

19′ FLYING SCOT
19′ x 6′9″ fiberglass sailboat has 190 sq. ft. sail area in mainsail and jib and can be rigged with parachute spinnaker. Mast is of extruded aluminum and standing rigging of stainless steel cable. Price: $2,050. less sails. Sails, best quality dacron jib and mainsail, $260, spinnaker, $100.

●

BILL DODDS BOATS
ROUTE 1, BOX 156A
JOHN'S ISLAND, S.C.

BUTTERBALL
Length 9′6″, beam 5′8″, sail area 50 sq. ft., mast 17′. Boat comes complete ready to sail for $394 FOB.

●

DOUGLASS & McLEOD
BOX 311, PAINESVILLE, O.

THISTLE
This famous class racing sloop is 17′x6′x4′6″ with centerboard down. Has 175 sq. ft. sail area. Hull is mahogany moulded plywood, with spruce mast and boom. Available in kit form in several stages of completion. Price, complete boat less sails, $1,765.50. Available accessories: sails, $240, and spinnaker, $90.

HIGHLANDER
Sloop 20′x6′8″x4′10″ centerboard down. Has 225 sq. ft. sail area. The hull is mahogany moulded plywood, with spruce mast and boom. The model is available in kit form in several stages of completion. Price, complete boat less sails, $2,439.25. Available accessories: sails, $285, and spinnaker, $100.

●

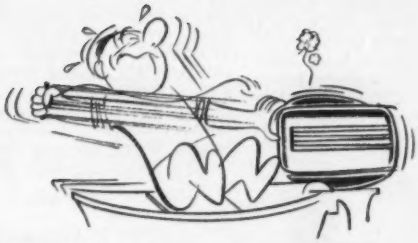
GORDON DOUGLASS BOAT CO., INC.
OAKLAND, MD.

19′ FLYING SCOT
The 19′ fiberglass Flying Scot has a planing centerboard designed for family use and racing. 6′9″ beam and full bilges of the husky 700 lb. hull, combined with a lead-ballasted 100 lb. centerboard, provide such stability as to make her easily handled by two persons. The clean sloop rig with Zephyr aluminum spars, stayed with only a single pair of main shrouds and a jibstay, makes the Flying Scot easily rigged by two persons for trailer use.

●

EAST COAST BOATS
BOX 117, OYSTER BAY, N. Y.

MOBJACK
17′x16′9″x6′6″x4′0″ (c. b. down), fiberglass sloop, planing hull, weight 375 lbs. Aluminum



DON'T START THE SEASON WITH A HARD-STARTING MOTOR...

See what a difference new spark plugs can make!

Boating should be fun. The kind of fun that starts with an easy pull on the starting rope—or a single press of the starter button. Don't risk your fun by relying on last year's worn spark plugs. They can make you pull till your arm aches —or press the button till your battery dies.

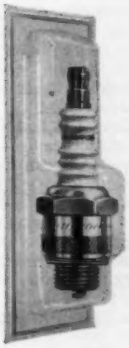
It's so inexpensive to get the sure spark you need for easy starts. Before you take to the water again, replace those old plugs with new, full-firing Champions. See what a difference new Champion marine spark plugs can make!

CHAMPION SPARK PLUG COMPANY • TOLEDO 1, OHIO

DEPENDABLE

CHAMPION

MARINE SPARK PLUGS



EVERY MAJOR OUTBOARD MAKER INSTALLS CHAMPION SPARK PLUGS

spars, stainless steel rigging. Hollow fiberglass centerboard and rudder assembly. Entire boat is self-bailing. Air chamber and styrofoam flotation provide buoyancy awash. Hull will carry outboard power up to 25 HP. Price, less sails, $1,595; with Dacron and nylon sails, $1,940.

●

P. EVANSON BOAT CO.
4110 FREELAND AVE., PHILA. 28, PA.

SAILING DINGHY
10'7½"x4'3"x5" sailboat with sail area 68 sq. ft., weight 95 lbs. Can be used with outboard or for rowing. Rigged for jib or cat in kit or completed form. Features flip up rudder, Sitka spruce spars, stainless steel rigging and racing hardware. ½" mahogany marine plywood planking. Seats four when used as outboard or rowboat. Price, complete kit, $370; completed boat less sails, $470; dacron sails, $80.

ENTERPRISE
13'3"x5'3"x7" dinghy, sail area 113 sq. ft., weight (fully rigged) 250 lbs. Accommodates two adults and two children. Hull is 5/16" marine mahogany planking. Other construction materials similar to "Sailing Dinghy." Roller reefed. Can be car-topped, rowed, used with outboards. Price, complete kit, $420; completed boat less sails, $730; dacron sails, $100. Also available: "Blue Jay," 13'6"x5'2" centerboard day sailer, marconi rigged; complete boat less sails, $800; dacron sails, $120. "Moth Mark VII," 11'x4'7"x4", construction similar to "Sailing Dinghy," complete kit, $355; completed boat less sails, $450; dacron sail, $79. "Penguin," 11'5"x4'8" centerboard cat rigged dinghy with 72 sq. ft. sail area; unpainted hull and rigging parts, $375; complete boat less sails, $425; dacron sail, $75. Fiberglass Penguin also available, complete, $475 less sails.

CELEBRITY
Class sailboat. 19'9"x15'9"x6'4"x

39" (3" board up), also available, "Celebrity-K" keel sloop with 29" draft. Sail area 172 sq. ft. Sail material: Egyptian cotton. Hull: strip planked mahogany, edge fastened with naval brass, planks 19/32"x 24/32". Marconi-rigged, masts are hollow Sitka spruce with sail track. Boom is slotted with self-locking roller reefing gooseneck. Storage space under fore and aft decks. 4 lockers in cockpit. Detachable canvas sprayshield that acts as cuddy. Top of centerboard cannot be lowered below the keelson, and centerboard is guided back into the trunk in case of going around or striking an under water object. Removable, easily stored seats in the cockpit allow the cockpit to be used for sleeping. Price, $1,750.00 both C.B. and Keel models including sails, sailcover, sailbag, stainless steel standing rigging, stainless steel main halyard with spliced manila tail, canvas sprayshield with copper frames, all chrome-plated or bronze fittings, roller reefing gear, woven cotton main and jib sheets, whisker pole, outboard bracket, boom crutch, mooring lines, fenders, wind pennant, marine plywood floors with moulding, side lockers. Both models available at same price with molded mahogany hull 13/32" thick.

●

GENERAL BOAT CORP.
GRAND PRAIRIE, TEX.

ALUMINUM FLYING FEATHER
Length 20', beam 6'. Fabricated from aluminum sheet, plate and extrusion supplied by Kaiser Aluminum. Over-all wt. is 375 lbs. with a sail area of 165.3 sq. ft. Dagger boards are ¼" aluminum plate. Rudders are fabricated from aluminum sheet filled with expanded plastic foam for floatation. Price, $1,939.

●

GENERAL BOATS CORP.
32 W. 46 ST.
NEW YORK 36, N.Y.

LIGHTNING JR.
LOA 13'10", beam 4'11", draft 2'10", sail area 92 sq. ft. The Lightning Jr. is easy to sail and uses the roller reefing boom to cut down the main sail area. As confidence is acquired by the novice, the jib sail can be added. The Lightning Jr. comes fully equipped, including extension hiking stick on the tiller. Price $495, with Dacron sails, $595. General Boats offers a Lightning that will meet association specifications for $2500, less sails.

PICNIC
17' fiberglass construction sailboat has cabin that sleeps 2 and an unsinkable hull, with both plastic flotation and sealed in air chamber. Equipped with tiltable rudder and telescopic centerboard, retracting into small centerboard well. Price, $1485.

PONANT
LOA 17'3", LWL 15'8", beam 6'6", sail area 172 sq. ft. The French-built Ponant is unsinkable and self-bailing. The boom is fitted with roller reefing gear and the transom is finished with a boom-pulley rail. Hiking straps are supplied for racing. Price, $1385. Elvstrom sails, $200.

●

GERBER'S BOAT WORKS
689 MINNEFORD AVE.
CITY ISLAND 64, N.Y.

LIGHTNING CLASS SLOOP
The Lightning is an excellent all-around sailboat with outstanding performance, used for class racing and is an ideal, roomy and comfortable, marconi-rigged day sailer suitable for family use. Length 19', beam 6'6", sail area 177 sq. ft. Price of standard boat $2100, less sails.

BLUE-JAY
The contender for the fast growing Blue-Jay sailing class has an over-all length of 13'6". beam 5'2", sail area 90 sq. ft. Price $895, less sails.

PENGUIN
The Penguin sailing dinghy is an international sailboat that may be used for class racing, frost biting, sailing instruction or as a sailing or rowing tender for larger boats. Length 11'5", beam 4'8", sail area 72 sq. ft. Price $480, less sails.

SNIPE
One of the largest racing classes in the world, the Snipe Class continues to grow year after year. Gerber has closely followed the Snipe lines and guarantees their boats will pass the most rigid measurements. Custom built racing Snipe, $975, less sails. Comes in kit form also, priced at $185.

●

GIBBS BOAT CO.
6580 MORIN GROVE
ERIE, MICH.

RHODES BANTAM SAILBOAT
14' LOA, 130 sq. ft. sail area, 5'6" beam. The Bantam is mahogany framed planked with ¼" plywood. Hull planking is mahogany one side for interior and covered with medium density plastic face finished with epoxy resin outside. Complete with Dacron sails, $695. Kit form, hull planked, $387.

●

GRAHAM PRAMS
8365 LEONA ST., FORESTVILLE,
WASH. 28, D. C.

OPTIMIST
7'8"x48"x13" optimist class racing-sailing prams have spruce bow and stern transoms and framing with ¼" full-length marine plywood panels. Features include brass screws and fastenings and spruce mast and sprit. Hardware is bronze. Prices: painted, complete with sail, $115; unpainted, less hardware and sail, $78.

●

GRAVES YACHT YARDS
MARBLEHEAD, MASS.

INTERNATIONAL 110s AND 210s
International 110 class racing sloop, $1,595. International 210 class racing sloop, $3,150. Also a 20' cruising sloop approximately $2,000.

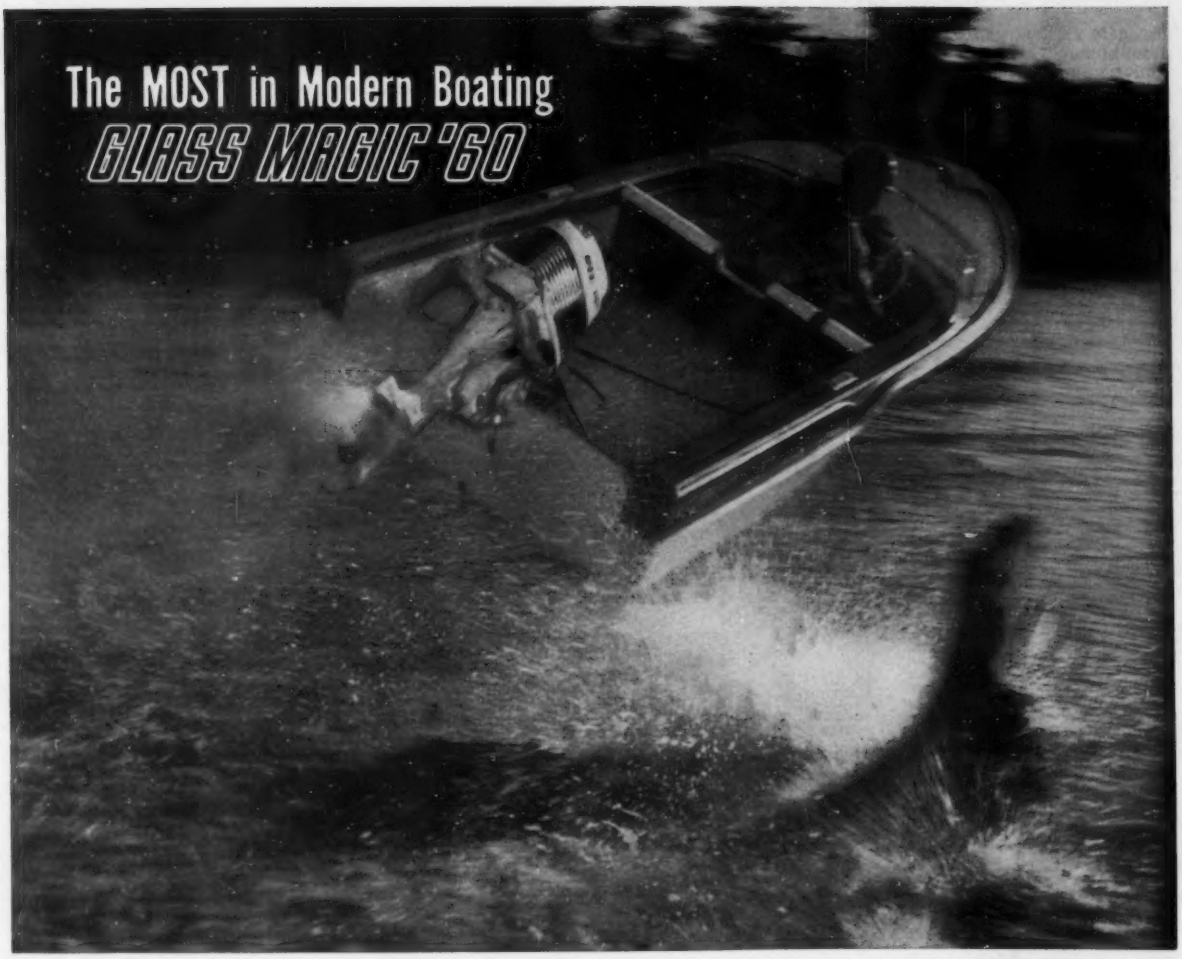
●

RAY GREENE & CO.
508 S. BYRNE RD.
TOLEDO 9, OHIO

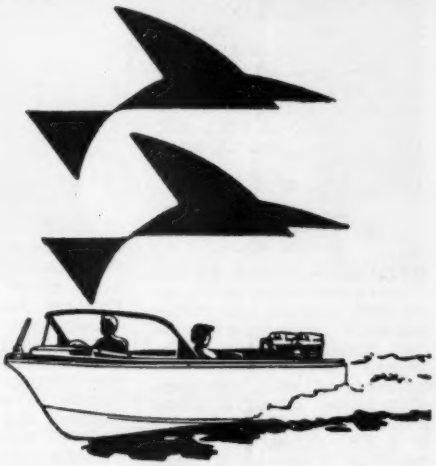
VIXEN
LOA 10', beam 54". Sail area of cat 60 sq. ft., of sloop 90 sq. ft. Ideal junior trainer. Dinghy will take sail or outboard.

NIPPER
LOA 12', beam 5'. 100 sq. ft. sail area. Available in salt or fresh water models. Price, $489.

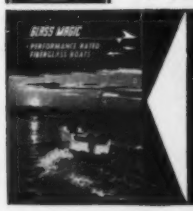
REBEL
LOA 16', beam 6'6", sail area



You can count on style, dependability, safety and stamina far beyond normal limits when your boat bears the famous Glass Magic name. While you will probably never experience the nerve-racking tension of racing your boat at full throttle toward a giant floating log . . . your boat is better because, at Glass Magic, we do. The effect of terrific impact tests like this help us to make your Glass Magic the best boat you can buy.
Whether you choose a glamorous runabout . . . or a luxury cruiser, there's a Glass Magic to steal your heart. See it today at your Glass Magic dealer.



Exclusive $50,000 hull! Faster planing with effortless speed plus a silk smooth ride. Special "Trim-Tab" chine lets you turn on a dime with a safe, controlled angle of bank.



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2730 LUDELLE
FORT WORTH 5, TEXAS

Prices Now F. O. B. Texas and Indiana

FACTORIES AND WAREHOUSES AT STRATEGIC LOCATIONS

166 sq. ft. Feature planing hull, aluminum spars, fiberglass construction, and is non sinkable. Price, less sails, $1,329.

NEW HORIZONS
LOA 25'3", beam 7'9", draft 3', sail area 324 sq. ft. Sleeps 4 on foam mattresses, complete galley, head and ample storage space. Power optional. All fiberglass construction.

●

GRUMMAN BOATS, INC.
MARATHON, N. Y.

ALL-PURPOSE DINGHY
8½' Dinghy designed by Phil Rhodes weighs 78 lbs. Serves as a one-design sailboat, as a yacht tender, or as general utility craft. Handles motors up to 3 HP. Supplied either as a rowing or sailing Dinghy. For a small additional cost the sailing rig can be enlarged to a "G" class rig, carrying 50 sq. ft. of sail area.

●

GUNDERSON CATAMARAN CO.
P. O. BOX 88
BELMAR, N. J.

GUNDERSON CATAMARANS
Catamarans are available in three sizes, all with round bottomed hulls of solid fiberglass, and centerboards and rudders of aluminum. Prices, 12' x 72", $445; 15' x 80", $695, and 18' x 90", $995, all prices less sails.

●

R. HAMANN & SONS
ROUTE 52
CARMEL, N. Y.

HAMANN SAILING PRAMS
Prams are available in 8' models, both standard and deluxe, and as 10', either sprit or marconi rigged. Planking is mahogany marine plywood and transoms of solid mahogany with corner knees. 8' model can be used with motors up to 3 HP. Prices, 8', $152.50 complete; 8' less sails, spars, rudders, etc., $78.50, and 10', $285 complete, marconi-rigged.

BLUE JAY
13'6" x 5'2" sloop has planking and decking of mahogany marine plywood and transoms, rudder and trim of mahogany. Mainsail and jib are of Drisail, spinnaker of nylon. Sail area is 90 sq. ft. Price, finished less sails, $685; unfinished less sails, $630.

HAMANN SAILBOATS
Line of sailboats includes Windmills, Penguins, Blue Jays, Jet 14, Thistles and Highlanders.

●

HAMPDEN WOOD PRODUCTS, INC.
155 RIVER ST.,
WEST SPRINGFIELD, MASS.

SEA-PUP
8' and 10' Vee sailboats, with respective beams of 48" and 57", and depths of 16½" and 19", and 42 sq. ft. sail.

●

HODGDON BROS.
EAST BOOTHBAY, ME.

HODGDON 21' SLOOP
21'4"x18'4"x3'5" draft keel sloop, equipped with dacron mainsail and jib, Genoa, and Dynalite spinnaker. Constructed of white cedar on oak; sawn, laminated mahogany transom, and an aqua-dynamic, 1000 lb. lead keel. Spars are hollow aluminum; rigging is all stainless steel. Accommodates four to six as a day sailer. Said to be fast and able; designed to be offered on a national basis as a class boat. Price, less sails, $3,750.

●

HOLIDAY YACHTS, INC.
CENTERPORT, L.I., N.Y.

COTTONTAIL
15'10" x 5'1" x 3' sailboat can be sailed either as sloop or cat. Features include fiberglass construction, removable aluminum centerboard, aluminum mast and stainless steel wire rigging. Flotation is styrofoam. Price: $995; cotton mainsail and jib, $98; Dacron mainsail and jib, $135, and Nylon spinnaker, $115.

HOLIDAY SAILOR 24'
24'1" x 7'7" sailboat has 5' draft with centerboard down. It can be rigged as either standard sloop, masthead yawl or masthead sloop. Features include stem, keel and floor timbers of white oak, transom of mahogany and mahogany plywood decks. Prices: standard sloop rig, $3690 with Dacron sails; masthead sloop rig, $3794 with Dacron sails, and masthead yawl rig, $4150 with Dacron sails. Also available is a 24'1" x 7'6" sailboat with same variety of rigs, the Junior Holiday, with similar specifications. Also includes 6 hp Palmer, 1 cylinder water-cooled engine with reverse gear and other equipment. Prices: standard sloop rig, $5490; masthead sloop rig, $5594 and masthead yawl rig, $5950, all with Dacron sails.

28' HOLIDAY VICTOR
28' x 7'10" sailboat can be rigged as either standard or masthead sloop or as masthead yawl. Construction features include stem, keel, floor timbers and frames of white oak. Equipment includes 22 hp Palmer 4 cylinder water-cooled engine, starter and generator, electric fuel pump and filter, mainsail and working jib (and mizzen for yawl), 4 foam rubber mattresses, stainless steel galley and Groco head. Prices, with Dacron sails: standard sloop rig, $7245; masthead sloop rig, $7369 and masthead yawl rig, $7745. Also available as a day-sailer with 2 berths, $5590. Company also offers 30'2" x8'5" Holiday, standard or masthead sloop or masthead yawl with similar engine equipment and fittings. Prices: all with Dacron sails, standard rig, $9490; masthead rig, $9694, and yawl rig, $10,090.

35' HONOLULU HOLIDAY
35'4" x 9'10" off-shore cruiser-racer can be rigged as either yawl, cutter or sloop, has mahogany planking, fiberglassed marine plywood decks, 22 hp Palmer engine with 2:1 reduction gears, stainless steel galley and icebox, and 3 cabins. Cockpit is self-bailing, with fiberglassed marine plywood removable floor. Prices: with Dacron sails, yawl, $17,300; cutter, $17,200 and sloop, $17,100.

41' HOLIDAY MOTORSAILER
41' x 12'5" motorsailer is powered by a Mercedes-Benz 6 cylinder diesel engine, fresh water cooled. Hull is of welded steel, decking is teak. Features include cockpit with 3 floor hatches, deckhouse with dinette convertible to double berth, complete stainless steel galley, complete Groco lavatory, and forward stateroom with 2 berths. Two transom berths are optional. Price: $34,000 complete.

●

INDUSTRIAL SHIPPING CO., LTD.
MAHONE BAY
NOVA SCOTIA, CANADA

12' SAILING DINGHY
12'x7'4" dinghy has centerboard design with hull of molded mahogany veneer. Main sail area is 65 sq. ft., and jib, 23 sq. ft. Seats 3.

●

INTERNATIONAL YACHT SALES
604 KERR BLDG.
DETROIT 26, MICH.

JOLLY-BOAT
20'5" x 7'3" x 2'9" motor sailer has displacement of 2,000 lbs., cast iron keel, 775 lbs., and sail area of 161 sq. ft. Construction includes oak backbone, frames, deadwood, mast foot, rudder, transom and rub rail, with iron keel and structural bolts and mahogany planking with copper fastenings, other fastenings of brass. Interior and top are of pine, with a Swedish spruce mast and boom. Galvanized rigging, stainless steel wires. Cotton is used for sheets, hemp halyards, Maco canvas sails. A boom tent can be strung over the entire cockpit to make room for extra berths or storage. Boat is equipped with 22-lb. anchor, 82' anchor line, two mooring lines, oars and locks, hook, two life belts, bailer and bucket, mainsail and jib. Prices, complete: with Palmer 16 HP engine, $3,685; with Universal 12 HP engine, $3,585; with Albin 10 HP engine, $3,485.

●

MERRIMAN BROTHERS, INC.
185 AMORY ST.
BOSTON 30, MASS.

TRIDENT
12' sailboat weighs 85 lbs., and has "Foam-Pac" construction of fiberglass skin with polyurethane-filled interior. Features include free-center board, plane-balanced rudder and wing-sprit rig complete with nylon sail.

●

MOUNT DESERT YACHT YARD
MOUNT DESERT, MAINE

AMPHIBI-ETTE
24' x 7'9" x 2'4". 3,000 lbs. Full cruising accommodations for 4. Available semi-finished for $3,495 or completed at $5,500. Light displacement and shallow draft make boat ideal for trailering.

AMPHIBI-CON
25'5" x 7'9" x 2'4". 3,900 lbs. Accommodations for 4. Available semi-finished for $3,995 or completed for $6,675 or custom domestic from about $8,000. Other boats available are the Controversy 36 priced from $18,000; Controversy 28, about $11,900; Controversy 26, about $8,000; and the Controversy 30 about $15,000.

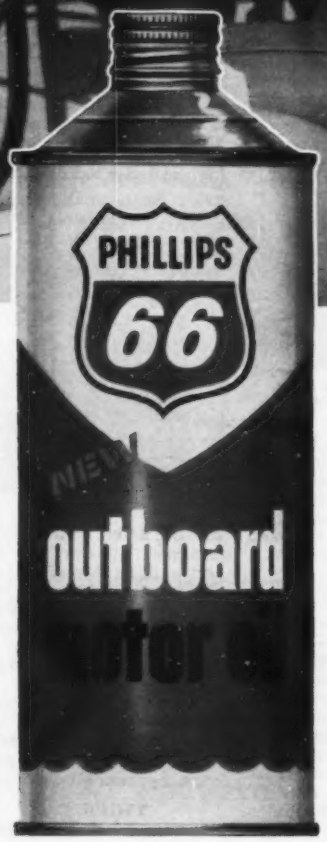
●

NATIONAL ONE DESIGN
545 GLENDORA AVE.
AKRON 20, OHIO

NATIONAL ONE-DESIGN
17'x5'8"x4' fiberglass sloop available in various stages of construction, and is offered complete with aluminum mast, stainless steel rigging and Race-Lite fittings. Frame "kit" is of white cedar and sitka spruce, and contains all preassembled frames, transom, keel and keelson, chines, stem, cheeks and knee, centerboard trunk. Boat is offered by Ray

Young America, on the go, chooses

Phillips *66* New Outboard Motor Oil



Young people want more go-power . . . peppier starts . . . clean, trouble-free performance! That's why they choose Phillips *66* New Outboard Motor Oil. It's way out ahead of leading competing brands. Proved in tests estimated to be equivalent to 4 or 5 years' normal use, Phillips *66* New Outboard Motor Oil kept engines *cleanest by far*. No sticky rings. No harmful engine deposits. Spark plugs stayed cleaner, lasted longer. For trouble-free boating use Phillips *66* New Outboard Motor Oil. You can get it in 8 oz. cans, qt. cans, and 55-gal. drums. Phillips Petroleum Company, Marine Sales, Bartlesville, Oklahoma.

Get Phillips *66* New Outboard Motor Oil at Pier 66 Franchised Marinas or Phillips *66* Service Stations

PHILLIPS 66

Greene and Co., 502 S. Byrne Rd., Toledo 9, O. Price, complete: $1,250, less sails. Frame kit is offered by Peter A. Geis, Severna Park, Md. Price: $85. Complete plans and instruction book available from Capt. H. E. Saunders, 7606 Maple Ave., Takoma Park, Md. Price: $15.

●

NAUTICA CORP.
P. O. BOX 26
PARAMUS, N. J.

VAURIEN

13'5" x 4'10" x 2'6" (board down) trainer is of mahogany plywood and has sail area of 87 sq. ft. and is rigged as cat or sloop. Features include roller reefing mainsail. Boat can be used with outboard auxiliary from 1 HP to 3 HP. Price, $495.

LANAVERRE 5-0-5

16'6" x 6'2" x 3'9" fiberglass planing racer was designed by Lanaverre, has sail area of 150 sq. ft. and complete racing equipment. Features include roller reefing mainsail and centerboard. Price, $1,485.

MARAUDEUR

16' x 5'9" x 3'9" (board down) camping cruiser is of molded mahogany plywood, has keel, centerboard, enclosed cabin sleeping 2 and sail area of 152 sq. ft. Features include roller reefing jib and mainsail, and boat can be used with outboard auxiliary from 1 HP to 3 HP. Price, $1,245.

CORSAIRE

18'1" x 6'3" x 3'9" (board down) enclosed cabin cruiser has keel and centerboard, sail area of 172 sq. ft., flotation blocks and outside ballast. Boat is of mahogany plywood, has self-bailing cockpit and can be used with outboard auxiliary from 3 HP to 5 HP. Price, $2,250.

CAP VERT

26'3" x 8' x 4'7" (board down) ocean racer-cruiser is of molded mahogany plywood, has 367 sq. ft. of sail area and is available in either a 4-berth single or 5-berth double cabin model. Features include plastic flotation lining bonded to entire hull, outboard motor well for outboards from 5 HP to 10 HP, enclosed head and galley. Prices, $6,900 single cabin; $7,500 double cabin.

●

NEWPORTER, INC.
788 W. 16TH ST.
COSTA MESA, CALIF.

"NEWPORTER" 40

40' ocean-going auxiliary ketch (or sloop) has basic construction of plywood over oak framing and complete fiberglass covering. Sails and lines are dacron, rigging of stainless steel and exterior hardware is bronze. Standard features include electric refrigeration, cruising battery and generator, spreader lights and life lines and stanchions.

●

GEORGE O'DAY
9 NEWBURY ST., BOSTON, MASS.

JOLLY BOAT

18'x5'2"x4'8" centerboard boat with 235 lbs. hull weight, 26 lbs. mast. Complete boat less sails, $1,445. Prefabricated kit, $1,050. Sails, $90 and up. English made. Also available: 16'6"x6'3"x3'9" "International 505," complete less sails, $1,500, in kit form, $995; 12'x4'7" "Firefly," complete less sails, $785, in kit form, $565, sails, $100; 14'x5'6" "Mark VII," complete less sails, $1,375, no kit available. Three other sailboat models available from $445 complete less sails.

RACING SAIL

The "Gannet" is a 14'x5'6" fiberglass planing sailboat from the drawing board of Uffa Fox. Weight 300 lbs., sail area 125 sq. ft. Features 1000 lbs., self-righting flotation and built in roller-reefing gear. Anodized aluminum rotating mast and boom. Price, $975 less sails. Also available are: 24' "Raven," a racing day sailer for $2,850; "Flying Dutchman," a 19'10" racing boat with 190 sq. ft. of sail area for $1,587.50 less sails; and the "Finn," a fast planing sailboat, with rotating, unstayed mast which can be rigged in 60 seconds. The "Finn" has been chosen as an Olympic class. These boats are built by Fairey Marine, and are constructed of either fiberglass or "cold moulded" plywood. They feature high quality European workmanship, easy trailability and fast performance.

SUPER SPRITE

10'x4'10" fiberglass sailboat was designed for adult beginners in sailing, and can be rigged either as catboat or as a sloop. Seats 2 adults. Price: $585, complete less sails. Construction of fiberglass hull and interior is by Marscot Plastics, Inc., Fall River, Mass.

RHODES 19

19'x6'8"x3'9" sailboat is a keel version of the Hurricane class designed by Philip Rhodes, and has large cockpit. Sail area is 176 sq. ft. Boat is also available as a centerboarder. Construction is of fiberglass. Price: $1995, complete less sails. Constructed by Marscot Plastics, Fall River, Mass.

DAY SAILER

16'6"x6' sail boat has draft of 4' (centerboard down) and 6" (centerboard up) and has 145 sq. ft. of sail area. Boat is of fiberglass, has seating capacity of 6 to 8, and will sleep two. Price: $1,300, complete, less sails. Constructed by Marscot Plastics, Fall River, Mass.

●

OFFSHORE OPERATIONS, INC.
CAMBRIDGE 38, MASS.

SHEARWATER III

Built in England and sold throughout U. S. except for the southwest by Offshore Operations, Inc., the Shearwater III is a fast, planing catamaran capable of speeds of 20 knots on a reach and over 10 knots close hauled. The hulls are 16'6" long and the cockpit

6'x7'. Price completely ready to sail, $1,490; ready to assemble kits including sails, $999; trailer $175.

●

OLSEN MARINE WORKS
ANNAPOLIS, MD.

ANNAPOLIS "30"

30'2½" x 8'4½" auxiliary masthead sloop has solid fiberglass hull, a one-piece, deck-stepped aluminum mast with stainless steel rigging, and a 22 HP Palmer for auxiliary power. Cabin sleeps 4—2 in main compartment, and 2 forward. All electrical wiring is cased in plastic, and other features include 400 sq. ft. of dacron sail, three fiberglass hatches, clothes locker, head, galley with icebox, sink and stove and self-bailing cockpit. Price, $9,950.

●

PEARSON CORP.
BRISTOL, R. I.

PLEBE

8' fiberglass sailing dinghy and tender. Can be sailed, powered or rowed. With fiberglass seats and reinforcements, $359; with mahogany seats and reinforcements, $395.

TRITON

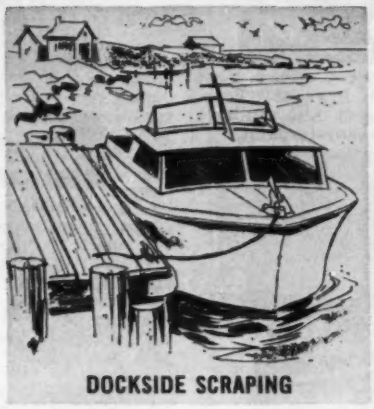
28' auxiliary sailing cruiser designed by Carl A. Alberg and built of fiberglass. Available in yawl or sloop rig. Sleeping accommodations for 4 or 6. Enclosed head; stainless steel sink; fiberglass ice box; foam mattresses; all standard equipment necessary to boat. Powered by a Universal Atomic 4 (25 HP) engine with direct drive, generator, reverse gear and starter. 12-volt system. Price, approx. $10,000.

TIGER CAT

17' catamaran is offered in

REVOLUTIONARY NEW PAINT DEFIES DAMAGING ABRASION !

LAUNCHING ABUSE


DOCKSIDE SCRAPING

SAND SCRATCHING

FREQUENT SCRUBBING

DESTRUCTIVE SCUFFING

PEELING, CRACKING, SLOUGHING OFF

WOOLSEY "MFP" CATALYZED EPOXY COATING

TRADE MARK

The Proved PRACTICAL Way to Protect and Beautify Metal, Fiberglass and Plywood Boats

Most owners are troubled by one or more of the problems pictured, simply because their hull paint can't stand up under the rigors of present day boating . . . doesn't bond tightly to the surface.

But now Woolsey provides the solution with a perfected, *dependable* epoxy coating!

Ordinary marine finishes need special primers, depend on surface "tooth" and porosity for adhesion. But Woolsey "MFP" Epoxy Coating "fuses" directly to the undersurface, cures hard and fast on the job. Result: a finish with an impenetrable bond . . . a super-tough, thick film of protection with greater resistance to water, weather, sun, fumes and boating abuse than you ever thought possible!

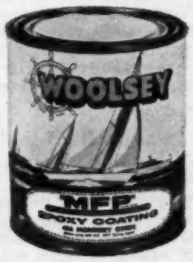
Extraordinary Adhesion to Fiberglass and Aluminum.

"MFP" is especially ideal for fiberglass and aluminum hulls where surface and color maintenance have long been unsolved problems. It's perfect too on steel and plywood including the new overlay types. Comes in white and fade resistant colors which hold their brightness.

Ask your Woolsey dealer for free literature on "MFP" Epoxy Coating, or write direct.

C. A. Woolsey Paint & Color Co. Inc.
205 East 42nd St., New York 17, N. Y.

WOOLSEY®
MARINE FINISHES



Makers of "Cawlux Nauticolors", "Vinelast" Racing Finish and other quality marine finishes.

wide selection of molded-in color combinations. Construction is of resin-impregnated molded fiberglass in two large sections with secondary bondings. Spars, mast, boom and jib luffspar are all of aluminum alloy extrusions and are grooved for sails. Standard equipment includes all fittings necessary for racing without spinnaker or for day sailing. Extreme beam of 7'11½" allows for trailering. Free literature on request.

VICTORY
37'3" fiberglass ocean racing yawl by Designer William H. Tripp, Jr., sleeps 6, has custom interiors, and wide color selection. Price, $28,850.

●

PIONEER FOLDING BOATS
206 E. 86TH ST.
NEW YORK 28, N.Y.

STANDARD DOUBLE SEATER 520 ZS
17' x 2'8" sailboat comes apart and folds for storage and transportation, and has frame of solid ash, deck of heavy canvas and hull of 5 ply natural rubber. Sail area is 68 sq. ft. Boat is German import. Prices: $385, complete; $275, less sails.

FOLDING SLOOP 380 DS
13' x 4'1" sloop can be disassembled and folded, and has frame of solid ash, hull of 5 ply natural rubber and heavy duty canvas deck. Sail area is 81 sq. ft. German import. Price, $675, complete.

●

ROBERTS INDUSTRIES, INC.
39 POST ROAD
BRANFORD, CONN.

BLUE JAY
13'6"x5'2" sailboat has 90 sq. ft. of sail area with mainsail and jib, and spinnaker may be added. Construction is of mahogany marine plywood planking, with sitka spruce mast and T-boom. Price, $877, complete, less sails. Also available as kit or ready-to-paint.

SAILING SEA SHELL
8' sailboat, is offered, and also a Sail Conversion kit to fit prams. Prices: 8' sailing pram (less sail) $124.50; Sail Conversion kit (less sail) $65. Also available ready-to-paint and complete.

●

SAYBROOK YACHT YARD
OLD LYME, CONN.

BLUE JAY CLASS SLOOP
13½' x 5'3" x 18" Blue Jay class sloop is marine plywood planked and rigged for main, jib and spinnaker with sail area of 90 sq. ft. Designed especially as training boat for beginners, sloop has capacity for 3 to 4 persons. Price, $995, less sails.

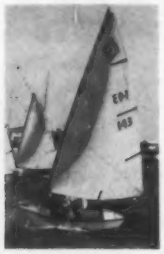
LIGHTNING CLASS SLOOP
19'x6'6"x2' Lightning class sloop is red cedar planked and rigged for main, jib and spinnaker, with sail area of 177 sq. ft. Boat features all glued construction and has a 4 to 6 person capacity. Prices: $1,975 day sailer less sails; $2,300 custom racing model less sails.

●

W. D. SCHOCK
504 29TH ST.
NEWPORT BEACH, CALIF.

LIDO 14 SLOOP
14'x72" all-fiberglass day sailer has hinged aluminum mast and boom, sail area of 111 sq. ft., and weighs 300 lbs. completely equipped. Features include integral fore-and-aft seats providing flotation chambers, and swinging centerboard locks in any position. Price: $1,075 less sails.

LEHMAN INTER-CLUB 10
10'3"x53" fiberglass boat has 19'1" mast, 9'8" boom and sail area of 67 sq. ft. Prices: $550 complete, less sails; kit, $465, less sails.



LEHMAN 12
12'x54" fiberglass sailboat has 20'4" mast, 10'4" boom and sail area of 81 sq. ft., and is available with choice of molded-in colors. It has lightweight "planing" type hull. Prices: $595, complete less sails; kit, $510, less sails.

S-22 JR OCEAN RACER
22' fiberglass sloop has 2' draft and weighs 1700 lbs. Features include hinged mast that can be raised by two people with aid of jib sheet winch. Sloop has sail area of 260 sq. ft. and can be used with outboard motors from 3½ hp to 7 hp. Equipment includes 4 berths, head, galley space, sink and drain, fresh water tank, stainless steel standing rigging, stainless and dacron running rigging, watertight self-bailing cockpit, life lines and stanchions, running lights and bulkhead-to-bulkhead carpeting. Price: $4750, complete, less sails.

NAPLES SABOT
7'10"x46" fiberglass model has laminated wood mast 13'3", boom, 7'3½" and sail area of 38 sq. ft. Features include positive buoyancy tanks, chrome hardware and dacron sheets. Prices: $315 complete, less sails; kit, $230, less sails.

●

SIDDONS-SINDLE
CENTRAL AVE.
ISLAND HEIGHTS, N. J.

JET 14
14'x4'8"x6' sailboat has round-bilged hull all-mahogany of International One-Design. Spars are sitka spruce. Boat weighs slightly over 150 lbs., and is available complete and in various stages of completion. Prices: bar shell as it comes from the mold, $260; complete hull decked, $510; complete boat unfinished $650, and complete boat less sails, $795.

FLYING DUTCHMAN
19'10"x5'7"x3'8" sloop has fiberglass reinforced plastic hull and deck, with inboard edges of deck curved down into floor to provide 2 watertight buoyancy tanks. Centerboard and rudder are mahogany, and all hardware polished stainless steel and molded phenolic plastic. Price, $1,795, without sails. Special trailer is also available, $225.

NOMAD
20' length, 7'2" beam. Mainsail 125 sq. ft., jib 50 sq. ft., genoa for racing 4 sq. ft., spinnaker 235 sq. ft. The Nomad is available in 2 models, both of which will be eligible under M.R.O.C. rules. The bay boat model is strictly a centerboard design. The other model is designed for the ocean having a smaller cockpit and centerboard-keel combination. Both boats sleep four and are available in various stages of construction. Complete less sails, $2,495.

●

SURFLINER CORP.
LAKE WALES, FLA.

MELODY YACHTS
32' to 40' sailboats are available in plywood or fiberglass, as base kits, bare hulls and complete boats. Features include either vee bottom or rounded, with beams ranging from 8'6" to 11'. Prices: kits, from $2000; hulls, from $3600 and complete, from $7950.

FLORIDA MOTH
11' racing catboat has fiberglass hull, mahogany plywood deck, aluminum centerboard and rudder. Price: $495, less sail. Also available are plans, $10.

SU-MARK, INC.
WALPOLE, MASS.

FEATHER
Cat rigged dinghy. Complete with mast, sail track, built-in daggerboard and well, and flotation tanks that serve as side seats, leaving the center clear. Can be rowed, and will take up to 3 HP motor. Priced from $299.50.

TRIANGLE MARINE CO.
5395 ST. PAUL BLVD.
ROCHESTER 17, N. Y.

STRIP PLANKED AUXILIARIES
The strip planked Auxiliaries being offered by Triangle Marine Co. are Amphibi-Cons, $6950; Amphibi-ettes, $5500 and Triangle 20, $2950.

TRI-STAR BOAT DIVISION
WOLVERINE AVIATION CO.
P. O. BOX 3841
DETROIT 5, MICH.

"HAMILTON-HULL" BOAT
9'2" x 55" fiberglass boat is available in three models, sailboat, outboard, and rowboat. Hull has twin keels, with two bulkheads running the length of the boat and rising from each keel to the deck. Accessories available include retractable Aqua-Plane making boat into hydroplane or racing utility when used with motor up to 18 HP.

TURBOCRAFT DIV.
INDIANA GEAR WORKS, INC.
3119 ROOSEVELT AVE.
INDIANAPOLIS 18, IND.

TURBOCRAFT SAILBOATS
Line of sailboats includes Porpoise, 13' x 39"; Snipe, 15½' x 5'; C-Scow, 20' x 6½", and a Y-Flyer, 18' x 5'8". All hulls are of fiberglass. Prices, Porpoise, $392.50, complete; Snipe, $1,200 less sails; C-Scow, $1,250 lens sails and Y-Flyer, $2,125, less sails.

HAROLD R. TURNER
ROUTE 1A PARKER RIVER
NEWBURY, MASS.

TURNABOUT®
9'8"x5'3" sailboat has ¼" marine plywood, 1" oak framing, metal centerboard and 18' Sitka Spruce spar. It is cat rigged, has 60' sail area, with spinnaker optional. Prices: $369.50, complete with sail; kit, $269.50, complete with sail.

VAN BREEMS
INTERNATIONAL CORP.
STAMFORD, CONN.

CALYPSO
Centerboard Cruising Ketch is one of the yachts imported by the corporation from the Netherlands. 42'4" overall, with draft of 4'3". Sleeps 7 and comes equipped with gasoline or diesel engine. Constructed with steel hull, teak decks and teak superstructure. Other models available.

GEORGE B. WALTON
SWEDISH BOATING
P. O. BOX 1528, ANNAPOLIS, MD.

KING'S CRUISER
28'x7'3"x3'11" accommodates four. Aux. sloop equipped with 300 sq. ft. dacron sails, stainless steel rigging throughout, stainless steel galley, toilet. Round bilge design constructed of African mahogany planking on white oak framing. Self-bailing cockpit. Price including sails (Volvo diesel engine optional), $7,845. Imported from Sweden.

RALPH H. WILEY
OXFORD, MD.

SAILBOATS
Line of sailboats offered includes 42' x 11' x 3' sail boat, a 44' x 11' x 3'6" motor sailer, and a 58' x 15' x 5' motor sailer.

JOHN M. WOOD, JR.
CENTRAL AND OCEAN AVES.
ISLAND HEIGHTS, N.J.

SPLINTER
14'4"x5'2"x6" (3' centerboard down) centerboard sloop has all mahogany arc bottom construction using a Snipe rig. Features include inboard seats for 4 adults and quick-stepping mast. Prices: $675 unpainted less sails; $795 painted less sails.

JACK WRIGHT, JR.
308 W. QUEEN LANE
PHILADELPHIA, PA.

14' G.P. SAILING DINGHY
The 14' G.P. Sailing Dinghy is a day sailer that gives high performance with crew of two. Draft 7". Rigged with jib and mainsail, total 102 sq. ft. sail area. Complete boat is priced at $775.

BRAND NEW!
7 EASY STEPS FOR BUILDING A FIBERGLASS BOAT KIT

1. The illustration at right shows the basic form or "skeleton" which is furnished for assembling the mold for a fiberglass dinghy.

2. (Left) Here you see the composite board panels which make up the bottom and sides of the mold being taped in place.

3. (Right) The rub strakes are then taped in place and the entire surface is waxed to prevent the fiberglass from adhering to the mold.

4. (Left) The mold is covered and fitted with fiberglass cloth.

5. (Right) Then three to six layers of glass and resin (depending upon the size of boat constructed) are applied with a brush.

6. (Left) After the resin hardens, the various components of the mold are removed and the seats are inserted into the precast grooves of the side planking and fastened with resin.

7. (Right) The completed boat can either be painted with an epoxy paint or coloring can be premixed with the resin before application.

These fiberglass boat kits can be completed in a shorter time with less work than any other kit boat. All you need is a scissors and a paint brush. Our Premixed Resin guarantees the success of the job and eliminates the veil of mystery that is connected with fiberglass.

Six fiberglass models ranging from eight to seventeen feet are available in addition to a complete line of plywood boat kits.

Send 50¢ in coin (Refundable) for big, new catalogs on FIBERGLASS and PLYWOOD kits.

U-MAK-IT PRODUCTS
DELAND, FLORIDA, DEPT. 7

SPECIALTY CRAFT

EVERY BOAT has its strong points—and its limitations. A stoutly built skiff that performs well with outboard power can be too heavy and clumsy for efficient rowing. A lightweight pram dinghy makes a good tender, but should not be overloaded and driven with a large outboard. There are as many different boats for special purposes as there are facets to this sport. Some of the more popular of these are listed in this Specialty Craft section of your Directory.

Where Will It Be Used

Although larger kit boats can be built for choppy open seas, most craft in this section are designed for sheltered waters. A great deal of boating's pleasure is to be found on the placid lakes and picturesque rivers of the nation, and a well-rounded selection of houseboats, canoes, skiffs, and novelty boats, are gathered together in the following pages. Here are shoal draft designs that can offer the adventure of exploring back bays and bayous, poking into shallow inlets, and gunkholing along little-traveled shorelines.

When—and How Often

If you car-top your boat, or if it must be carried by children, keep the weight of your boat light. Aluminum canoes, canvas foldboats, and plastic dinks are all built to lightweight specifications. Often the tender to the large boat can be used by the kids for a junior sailing trainer if a model is purchased with a centerboard trunk or lee boards. The masts of these little sailers can usually be disjointed so that they can easily be stowed aboard the bigger boat. Don't fail to check and make sure that there is adequate flotation to support the full passenger load in case of a capsize.

Utilities For Hunters

The small boat is a must for many types of hunting use. Getting to and from camp with gear and setting out stools for duck hunting requires a boat with good stability, ample load carrying capacity, and good freeboard to weather spray and chop. Many of these craft in aluminum and plastic, as well as wood, are available with a camouflaged color scheme which blends well with the natural setting. Be certain that you are acquainted with the conservation laws of your state, however. Many locales have laws against shooting game from a craft with auxiliary power.

CHECK LIST FOR THE SPECIALTY CRAFT BUYER

- ☐ **Is this boat suitable for your local waters?**
- ☐ **Is it a "stunt" boat that may be enjoyable once or twice but one which you may tire of quickly?**
- ☐ **Is it similar to craft you have already sailed so that you (and your family) will feel comfortable about your ability to handle?**
- ☐ **Does the builder have a well established reputation?**
- ☐ **Can the dealer refer you to other satisfied owners?**

HULL

- ☐ **Have hulls of this type proved stable and seakindly in your local waters?**
- ☐ **Have the materials (wood, metal, or plastic) stood up well in your area?**
- ☐ **Is it easy to repair and maintain?**
- ☐ **Will the boat have good resale value?**

POWER

- ☐ **Has provision been made for equipping the craft with outboard or inboard power if so desired?**
- ☐ **Is there room to store adequate gas for a trip?**
- ☐ **Will full power make her difficult for youngsters to handle?**

ACCOMMODATIONS

- ☐ **Can passengers use craft for its special purpose and still be comfortable aboard?**
- ☐ **Is there provision for shelter during inclement weather?**
- ☐ **Is there room for all required and recommended safety equipment aboard, and can it be stowed so it will not be lost overboard?**
- ☐ **Is your choice "fully found," or will a great many additional items of equipment be required?**

Houseboats

If you want to combine the convenience of a house with the mobility of living afloat, many manufacturers are now turning out luxury houseboats with all the comforts of home. Aluminum alloy, fiberglass, and styrofoam, are among the modern materials that insulate and afford flotation for this new concept of leisure time. Butane bottled gas and electric refrigeration ease the task of the Mate, and screened "front porches" provide a place for the children to play, secure from the dangers of falling overboard. In maneuvering large houseboats in strong cross winds, plenty of spare power is useful, and these craft are well suited to twin screw installations of either inboard or outboard power.

Novelty Boats

Most novelty boats that we have seen are little more than toys, and should be treated accordingly. The person who operates the craft should be able to swim, and Coast Guard approved life saving apparatus should be carried. Adult supervision of children is strongly suggested so that the most fun with maximum safety can be enjoyed with these water-sports craft.

Kit Boats

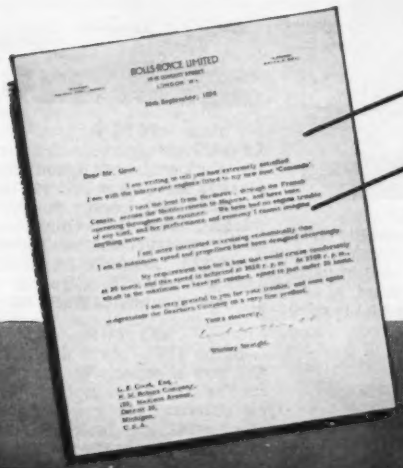
One way the boat owner can save on the purchase price of a boat, is to secure one in kit form and do the assembly work himself. Some boatmen with a local source for good building lumber may prefer to order plans from a naval architect, or a frame kit and patterns from some of the firms which specialize in this service. Be certain that materials are of the best possible quality, and that all fastenings, cleats, and metal fittings are of materials designed especially for marine service. As kit boats range from the smallest pram to large cruisers and sailboats, and in every stage of construction from plans and frames to unpainted hulls, it is possible for the boatman to get the size and type of craft he wants at a price he can afford.

Racing Craft

For those who enjoy the thrill of speed over the water, many racing utilities, drag boats, and hot rodders will be found listed in the following pages. Remember that a fast rig might be expensive to maintain, however, and inquire around the clubs in your local area to find the most popular craft for competition.

Men who know engines choose

INTERCEPTOR


ROLLS-ROYCE LIMITED

I am writing to tell you how extremely satisfied I am with the Interceptor engines fitted to my new boat, 'Camanda'.

My requirement was for a boat that would cruise comfortably at 20 knots, and this speed is achieved at 2,650 r.p.m. At 3,700 r.p.m.....speed is just under 28 knots.

.....again congratulate the Dearborn Company on a very fine product.

Signed Whitney Straight
(Vice Chairman, Rolls-Royce Limited)

Mr. Straight's 'Camanda'. Photo by Eileen Ramsay, London.

INTERCEPTORS DELIVER WHAT THEY PROMISE . . .

Mr. Straight, as Vice Chairman of Rolls-Royce, Limited, *really* knows engines! The Rolls-Royce name stands alone—without peer in its field.

On a recent trip to the United States, Mr. Straight honored us by visiting our plant. He expressed great interest in what he saw—and as his letter (above) says, he is "extremely satisfied" with his Interceptor engines.

We feel—with more than ordinary pride—that this is another example of performance delivered as specified by Interceptor!

FACTS ON MR. STRAIGHT'S FAST DAY CRUISER

- Length —28′ overall
- Beam —8′4″
- Draft —2′10″
- Cabin —Enclosed
- Seats —Over engine, face fore and aft
- Engines—(2) *Interceptor* 215 hp., with direct drive

EXPORT DEPARTMENT—120 MADISON AVENUE, DETROIT 26, MICHIGAN • CABLE ADDRESS: ROBNS DETROIT

INTERCEPTOR

DEARBORN MARINE ENGINES, INC.
Dept. M 31465 Stephenson Highway
Madison Heights, Michigan

everything in the water needs

FEND-AIRE

BOAT FENDERS!

Everything — from the largest yacht to the smallest rowboat. Nothing will protect better, nothing will outlast Fend-Aire. And we're so sure of it that we guarantee every Fend-Aire boat fender sold against rupture.

ASK THE MAN WHO HAS USED THEM!

4 COLORS: Red • Yellow • Blue • White

5 SIZES: 2"x13" • 4"x18" • 3"x14" • 5"x24" • 8"x30"

Ask your dealer or write to —

FEND-AIRE

248 ROBINSON AVE., BARBERTON, OHIO

ATTENTION BOATMEN!

FREE! **BIG MARINE DISCOUNT CATALOG**

Contains over 100 unusual items for boat owners. Equipment, accessories, marine jewelry. For your own needs or gift selection.

ORDER BY MAIL—SAVE!

Here Are a Few of Many Typical Bargains Offered in Our Catalog

FIRE EXTINGUISHER

Meets new Coast Guard rules. One required on boats up thru 26-ft. Replaces outlawed "tet" types. Aim at fire and press button. BIG GAUGE shows pressure. Bracket supplied. Refills available.

Regularly $19.95.

KD 2½ DCP NOW ONLY .. **$14.95**

SHIP HORN

Terrific penetrating power. Can be heard for miles. Trouble-free and economical. Several hundred strong, clear blasts per Freon pack.

NA 930 complete regularly $9.95 .....SPECIAL $7.95
2 for $15.00

NA 931 refill Freon container, regularly $1.95. SPECIAL $1.49

BATTERY BOX

Protects battery against sun and water. Impervious to battery acid and salt water. Will not corrode, crack, shatter, chip or peel. Floats if it falls overboard. Fits all standard size batteries to 7½x11.

Value $6.75. BRM100-2 Our Special **$4.95**

DRINK HOLDER

Never-tip drink holder. Attached to boat by screw-driver. Marine blue anodized aluminum. Accommodates glasses, cans, bottles. Gimbal mounting holds drink vertical.

No. DP-103. Thousands sold at $2.95 each. OUR PRICE ONLY....ea. **$2.20**

ALL ITEMS POSTAGE PAID ANYWHERE IN CONTINENTAL U.S.A. SEND CHECK OR MONEY ORDER TODAY. MONEY BACK GUARANTEE.

MODERN MARINE MART INC.

307-PB2 WATER STREET BINGHAMTON, N. Y.

KIT BOATS

BAY CITY BOATS
1813 FIRST ST., BAY CITY, MICH.

MYSTIC

22′ sloop designed for easy construction by the builder. In solid iron keel or centerboard models; has good interior accommodations with berths for 4.

BAY CITY KITS

Feature pre-assembled frame, pre-cut planking, decking, exterior, and interior finish materials, fittings, engines. Frames of northern white oak; fastening holes pre-bored. Factory will plank the hulls at option. Models: 17′ outboard utility with 7′ beam, 3″ depth, sleeps 2; 17′ inboard utility or runabout with average power 95-130 HP; 20′ hull available with or without cabin that sleeps 2; Model 1622, a 22′ x 8′ cruiser that handles over 100-275 HP; 24′ hull available as utility with sleeping for 2 under forward deck, as sport fisherman with small cabin, or as "Bay Craft" family cruiser with cabin that sleeps four; 28′ hull with deluxe cabin arrangement —refrigerator, dinette, enclosed toilet, galley, sleeps 4. Larger hulls also available to which the home builder can add his own cabin design. 28-page catalog available at 25¢.

BERKELEY MODELS, INC.
25 HEMPSTEAD GARDENS DRIVE, WEST HEMPSTEAD, N. Y.

SINBAD

7′10″x30″. Weighs 62 lbs. Maximum length of boom and mast, 8′. Hull built up from ¼″ plywood of water tight construction. Mahogany used for hand rails and rubbing strips. Mast and boom are of spruce. Cotton sail. Supplied as kit and ready built. Completed boat, painted, with sails, $169.50. The kit is separated into 2 sections: the hull section, complete with fastenings and adhesive (for those who want to use it as an aqua-plane or surfboard only). The Sail and Hardware kit (includes the boom, mast, rudder, sail and hardware), Combined price, $99.50. Plans available separately at $2.50.

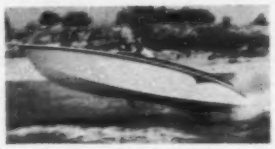
CULVER CRAFT
BOX 381, DOWNEY, CALIF.

TUFFY

An outboard runabout designed for sleekness and speed and ideal with power of 40 hp. Length, 13′; beam 6′; hull weight, 250 lbs. Complete plans, instructions and patterns, $25. Complete frame-kit and plans, $75. Complete knock-down boat, $199.99 FOB.

SKI TOW

Length, 14′8″, beam 6′6″. The Ski Tow is especially intended for the larger and more powerful outboard motors. The forward seats may be made with split back. Complete plans and instructions, $8.75. Plans and full size patterns, $17.75. Complete frame kit and plans, $94 FOB.



MISSILE

The 16′ Missile is an inboard runabout designed for small light weight but powerful auto conversions or high-speed marine power plants. Plan set with step by step instructions, $12. Plan set and full size patterns, $22. Frame kit and plan set $140 FOB.

MALAHINI

A 16′ Sports Runabout designed to take cutboard power to 80 hp. Plywood planking over mahogany rib construction. Plans and instructions, $9.25. Plans and full size patterns, $18.25. Complete frame kit and plans, $96.

WANDERLUST

An outboard cruiser with plenty of cockpit room for the fisherman. Complete plans and instructions, $13.25. Plans and full size patterns, $20.75. Frame kit and plans, $160.

CUSTOM CRAFT MARINE CO.
1700 NIAGARA ST.
BUFFALO 7, N. Y.

"JET" RACER

10′ x 55″ kit racer. Has constant dihedral bottom, wide beam and non-trip chines. Will easily handle 10 HP and more. Price, $152.50.

PRAM-UTILITY

10′ x 55″ kit boat. Weighs 90 lbs., for motors from 3 to 20 HP. Top speed 45 mph. Car-

ries 3 passengers. Constructed of ¼" marine plywood. Has wide flaring sides. Price, $129.50.

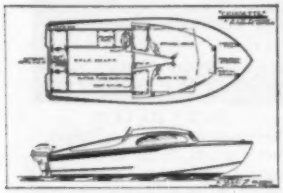
UTILITY SKIFFS
Kit rowboat in 2 sizes: 10' x 42" and 12' x 42". Can use motors up to 10 HP. Mahogany frames, plywood planking. Price, $79.50 and $83.50. Other models in kit boats also available.

V22 INBOARD—VICTORY
22' x 8' kit cruiser. Transom of plywood with 1" mahogany; decking of plywood and cabin sides of solid mahogany. As complete boat or pay as you go kit. Formed hull kit, $1,310. The semi-finished hull, $1,575. Custom finished boat, $1,945. An outboard model also available, kit price, $980. Many other models available ranging downward in size to the above listed racer and utilities.

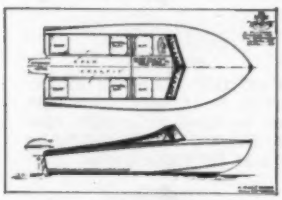
●

GLEN L. MARINE
9152 E. ROSECRANS,
BELLFLOWER, CALIF.

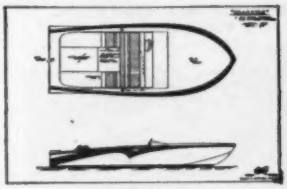
L. DORADO
13'x68", hull weight, 260 lbs. For use with motors ranging to 40 HP. Price, $88, including transom, frames, transom knee, breasthook, stem, plans and instructions as well as full size patterns for carling and tail contour. Also available, plans, patterns and instructions, $16.25; fiberglass kit for bottom, sides and transom, $44.50, and fiberglass kit for bottom only, $27.



CRUISETTE
15'x72", miniature cruiser recommended for motors ranging to 40 HP, at which top speed is 30 mph. Boat sleeps 2. Price, $92.50, including transom, frames, stem, breasthook, transom knee, plans and instructions. Also available, plans and instructions, $7.50; plans, patterns and instructions, $12.75; fiberglass kit for bottom only, $29.50 and fiberglass kit for bottom, sides and transom, $49.50.

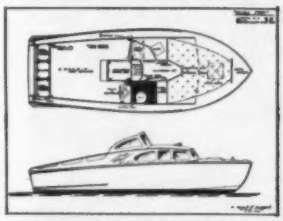


NIMROD
15'x6', hull weight, 425 lbs. This utility is recommended for use with motors to 40 HP. Features include bunks for 2 which fold into seats. Price, $87.50, including transom, stem, breasthook, transom knee, frames, plans and instructions. Also available, plans and instructions, $7.50; plans, patterns and instructions, $12.75; fiberglass kit for bottom, sides and transom, $49.50 and fiberglass kit for bottom only, $29.50.



DRAGSTER
18'4"x7'1". Boat will take large auto conversions and marine motors to 300 HP, with top speed of 70 plus mph. Carries 5. Price, $235, including frames, transom, stem, breasthook, plans and instructions. Also available: Plans and instructions, $15; plans, full size patterns and instructions, $24; fiberglass kit for bottom only, $39, and fiberglass kit for bottom, sides and transom, $80.

WHEE TWO
21'10"x8'x12". Marine motors or auto conversions can power this boat, with horsepower ranging from 45 to 125. Top speed is 25 mph, cruising speed, 20 mph. Has fuel capacity of 40 gallons and approximate cruising range of 100 miles. Sleeps 2, has cooking facilities and head. Boat features Vee



bottom, with plywood planking over sawn frames. Price, $240, includes frames, transom, stem, breasthook, plans and instructions. Also available: plans and instructions, $17.50; plans, patterns and instructions, $28.50; fiberglass kit for bottom, sides and transom, $104.50, and fiberglass kit for bottom only, $54.50.

●

HARBOR HULLS, INC.
BROOKLYN ST.
OAK HARBOR, OHIO

CLINKER HULLS
The 16' clinker hulls are newly designed with flared clipper bow and new high speed transom. 72" beam and 32" depth. Thiokol rubber seam compound is used between the laps. Assembled hulls come complete with transom, keel and all framing members but without decks and seats.

●

INDUSTRIAL
SHIPPING CO., LTD.
MAHONE BAY
NOVA SCOTIA, CANADA

CAPE ISLAND HULL
27' laminated hull has design

QUICK AND EASY TO ERECT OR TAKE DOWN...
Without working in water..."PERMA-D" METAL BRACKETS

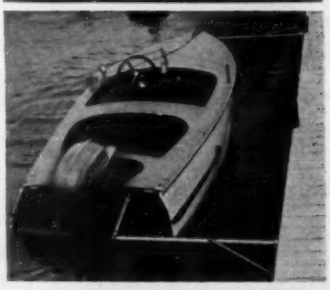
Now you can put up and take down your dock each season and can cut the time in half, using "Perma-D" Metal Brackets. You get a stronger, safer dock and you work from top of dock—without standing in cold water. Simply build wooden sections on shore, attach "Perma-D" Brackets and float into place on boat. Stand on dock, drop steel pipes through brackets and drive into bottom. Setscrews lock brackets securely on pipes—easy to adjust for changing water levels. Dock may be taken down by sections just as easily and quickly. 1¼", 1½" and 2" Brackets for standard steel pipes. LOW FIRST COST and a permanent dock. Your present wood sections are easily adapted for use with the fast, worksaving "Perma-D" method.

Make a stronger FLOAT this easy way with "PERMA-D" FLOAT BRACKETS

"Perma-D" Float Brackets securely fasten 55-gallon drums to landing or swimming floats of any size—making construction and handling an easy job. "Perma-D" Ladder can be used on either Float or Dock.

Moor your Boat safely with "PERMA-D" MOORING BARS

Your outboard runabout or any small boat is safely moored with "Perma-D" Mooring Bars, making it easy to step in or out of boat. Strong springs attach to bow and stern—your boat's strongest parts—so boat rides easily yet never bumps or rubs dock. Bars attach to dock or float, and fold in flat when not in use. Ruggedly built, zinc plated.



Low Cost Kit for "PERMA-D" PONTOON BOAT

You can now have all the fun—and *economy*—of building your own pontoon boat. Pontoons are made with standard 55-gal. steel drums fastened to platform frames with "Perma-D" Pontoon Brackets. The "Perma-D" Pontoon Boat Kit includes two nose cones, outboard motor mount, brackets, and tie rods for pontoons, with complete instructions for building frame, pontoons, deck.

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See "Perma-D" Booth D-251, N.Y. Boat Show

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CENTRAL MACHINE WORKS COMPANY
Established 1890

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Dynamometer tested after assembly with all accessories

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Rugged, Safe, Dependable
Priced from $2068 COMPLETE*
6-cylinder model develops 96 shaft h.p. @ 2250 r.p.m.—4-cylinder model develops 60 shaft h.p. @ 2250 r.p.m. *ready to install—including: heat exchanger, fresh water cooled exhaust manifold, fresh and sea water pumps, a wide selection of hydraulic or manual reverse and reduction gears and optional front mounted power take-off.

Barr, the world's most experienced manufacturer of conversion equipment, offers you the widest selection of low-cost, high-performance power . . . complete conversions for all popular American auto engines from Willys to Cadillac.

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NEW FOR '60! Complete fleet of greater wood lapstrakes from 14' runabouts to 19' 10" cabin cruisers. 5-ply, 3/8" marine fir strakes, all screw fastened from stem to stern.

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of the Cape Sable Island fisherman, and is available knocked down or assembled to the sheer line.

MAHONE SPORT KITS
Four models of outboard boat kits based on molded hulls of laminated birch veneer. Parts are completely prefabricated.

•

ROBERTS INDUSTRIES, INC.
39 POST ROAD, BRANFORD, CONN.

SKIMMER
95"x44"x16" runabout has mahogany seats, full length planking and built in floor boards. Boat can be used with motors up to 7½ HP, and is available as kit, ready-to-paint or complete boat. Price: kit, $98.

PENGUIN
11'5"x4'9" boat weighs 140 lbs., and is available as kit, ready-to-paint or complete boat. Price, complete, $460, less sails.

HYDROFOIL BAT
8' boat has tandem hydrofoils and is said to be 50% to 100% faster than conventional hulls with same horsepower. Price, $460, complete. Foils installed on your Skimmer at factory, $200.

•

STAMPS STEEL CRUISERS
2710 W. JEFFERSON
TRENTON, MICH.

SEA DART
22' steel hull is available in standard, raised deck and flared bow models, and also as finished boat, without power. Necessary equipment for finishing kits is available. Hull is rustproofed with heavy vinyl-plastic coating. Prices, $1,995, finished, no power; $795, standard hull.

SEA LADY
25' steel hull sleeps 4, and is available in variety of models, as standard hull, with raised deck, and with raised deck and flared bow. All necessary equipment for finishing boat is available including express cabin kit, day kit, insulated floors, interiors and bunks. Prices, from $1,295 for standard hull.

SEA PRINCE
32' steel cruiser is available in finished form, or as kit, with either standard hull, raised deck or raised deck with flared bow. Boat sleeps 6, has 11'6" beam, 30" draft. Prices, finished, from $9,595 up; kit, from $2,695; finished, no power, $6,250.

•

UNIVERSAL MOULDED PRODUCTS CORP.
1500 WALNUT ST.,
PHILADELPHIA 2, PA.

BOAT HULLS
Fiberglass hulls are molded to specification, from 10' to 50' in length. Autoclace Moulding System is used for durability, maximum strength, economy and high glass reinforcement content.

ROWBOATS & CANOES

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AERO-CRAFT BOATS
400 WATER ST.
ST. CHARLES, MICH.

FIBERGLASS CANOE
16' fiberglass canoe offers easy portage weighing only 74 lbs. Styrofoam filled bulkheads for flotation safety.

•

THE ANCHORAGE, INC.
57 MILLER ST., WARREN 3, R. I.

DYERESIN DHOW
9'x4'5" rowboat is constructed of polyester fiberglas, has the patented Dhow hull. 3 to 5 HP outboard motor can be attached. Price for the standard model $325; for the deluxe, $415. Price includes bronze rowlocks, 2 sets rowlock sockets, painter artificial flotation. Additional features for the deluxe model; chromed hardware, varnished trim, floor gratings, shipmate gunwale guard, oars, lifting rings.

•

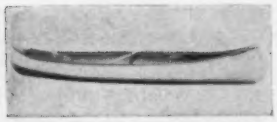
ALLCOCK MFG. CO.
OSSINING, N. Y.

DINGHY
8'3"x45"x19" fiberglass dinghy carries 5. Has rounded bow. Can be used with light outboard motor. Price, $225. Also 13' and 16' guide boats.

•

BARRACUDA MARINE CO.
311 ASHLAND AVE.
AURORA, ILL.

HIAWATHA
16' x 35" x 20" fiberglass canoe



has aluminum gunwales, seats, deck plates and Styrofoam and balsam wood flotation. Weight is 85 lbs. Price: $250. Company also offers a 15′ x 35″ x 13″ canoe with square stern for use with motors. Price: $265.

●

BEALL BOAT SHOP
SEVERNA PARK, BOX 226, RT. 2, MD.

16′ ROWBOAT
16′x58″ model. Constructed of plywood. Outboard power up to 12 HP. 26″ free board at bow, oak chines, oak gunwales, weighs approximately 200 lbs. Price $159.00 including oak lock sockets, bow bolt, 2 coats marine paint, varnished rails, ⅝″ sides, ½″ bottom.

14′ ROWBOAT
14′x56″ model constructed of plywood. Outboard motor up to 10 HP can be used. 26″ freeboard at bow, oak chines, oak gunwales, bow bolt, 2 coats marine paint, varnished rails, weighs approximately 165 lbs. Price $139.00 including ⅜″ sides, ½″ bottom marine panels.

12′ ROWBOAT
12′x54″ model constructed of plywood. Outboard power up to 5 HP. Weight 122 lbs. Oak chines, oak rails, bow belt, 2 coats marine paint. Price, $115.00 including 5/16″ mahogany plywood sides, ⅜″ bottom.

●

BURGESS BROS.
ENDICOTT ST.
NORWOOD, MASS.

DINGHY
Burgess Bros. manufactures three fiberglass models: Bobbin 8′8″ Dinghy for $156.50; Beaver 8′8″ Sailer for $325; and the Badger 10′6″ Car Top for $250.

●

CONNECTICUT BOAT CO.
STEAMBOAT RD.
GREENWICH, CONN.

SKIMMAR DUCKBOAT
Built for rugged use, the Skimmar Duckboat is a low-sided, AA marine plywood craft with plenty of beam for 2 hunters side-by-side, sitting, kneeling or lying down. It is a stable shooting platform that blinds easily because of flat side-decks and grass-rails for easy grassing up. Skimmar Duckboat comes in steel gray or dead grass color, complete with ammunition box, stainless steel motor plate, oarlocks, cleat and bronze mooring ring and sells for $189.

●

RAYMOND A. DODGE
1625 BROADWAY
NILES, MICH.

KOBBERUP CANOES AND KAYAKS
Kobberup Canoe and Kayak Yard of Struer, Denmark has appointed Raymond A. Dodge as exclusive distributor for their line of competition canoes and kayaks. All models are carried in stock for immediate delivery and are priced competitively with standard canvas covered canoes. The Olympic Competition Canoes are natural finished in Spanish Cedar, with maple trim.

●

EDJONS BOATS
598 S. 11TH ST.,
NEW HYDE PARK, L. I., N. Y.

PRAM
8′x4′x16″ pram built of fir plywood skin, oak seats and oak frames. Boat is painted outside, varnished inside and Monel fastened. Price, $85, F.O.B. New Hyde Park, N. Y.

●

E. GITT
P. O. BOX 182, SPRINGFIELD, PA.

MINNOW
12′8″x33″x12″ canoe weighs 35 lbs., seats 2. It has a white fiberglass hull and mahogany topsides. Styrofoam flotation is bonded to underside of decks, and hull is molded in one piece complete with keel and bilge keels. Prices, $159, complete; $129, kit. Also available in dead grass color.

MINNOW OUTRIGGER
Outrigger can be used with any canoe, and consists of an 8 lb. fiberglass shell filled with buoyant plastic foam. Float is attached, Polynesian style, by two mahogany booms and can be used with motors from 1½ to 5 hp, or to adapt canoes for sailing. Price: $39.

MINNOW HUNTER
11′x40″ boat has fiberglass hull and mahogany topsides, both dead grass color, with Styro-

MARINE PAINT

Z-POXY . . . toughest epoxy yet! Z-Spar's entirely new, powerful epoxy formula introduces a rugged, flint-hard finish that puts teeth into the word, "durability." Lab-tested and proven in 3½ years of intensive field trials, Z-POXY takes to metal, fiberglas and plywood hulls instantly . . . literally glides off your brush for smooth, trouble-free application . . . resists abrasion, has maximum adhesion . . . maintains an extreme hi-gloss brilliance that lasts . . . and lasts . . . and lasts! Your dealer has a complete stock in 6 beautiful colors, clear or white.

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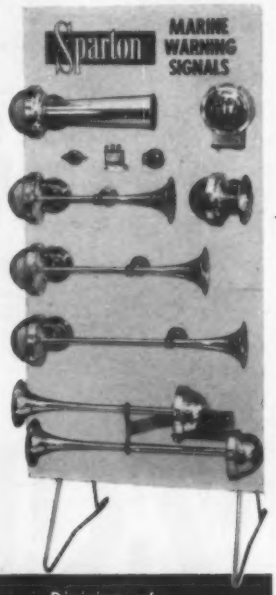
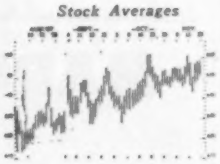


Your guide to the best warning signal for your boat

On display now at marine dealers everywhere — the most popular line of marine horns anywhere . . . Sparton.

Sparton AUTOMOTIVE | Division of SPARTON CORPORATION Jackson, Michigan

Stock Market Profits and the Growth in Boating



Did you know that America's boating industry has become the nation's leading family sport? Retail expenditures have increased from $950 million in 1953 to over $2.5 billion at present.

While investment opportunities in this field are rare, of those available many have been exceptionally profitable. For example, the stock of one company, first offered to the public five years ago at $1.00 a share recently sold at over $35.00 a share.

We, as specialists in boating investments, have carefully researched the background and prospects of several boat companies, currently priced under $7.00 a share, which, in our opinion, stand an excellent chance to show comparable growth. Our report on these companies should have unusual interest for you.

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PB-2/60

foam flotation attached to deck undersides. Cockpit opening is rectangular with high combing in front and at sides, available to accommodate either one or two people. Hull has fore and aft rocker on bottom for sliding on mud or ice, and motor board on the square stern can handle engines from 1½ to 5 hp. Price: $169.

●

GRAHAM-PRAM
8365 LEONA ST.,
FORESTVILLE, WASH. 28, D. C.

PRAM

8'x47"x14" flat bottom pram weighs 55 lbs., is constructed of spruce and plywood with brass screws and fastenings throughout. Prices: painted, complete, $74.50; unpainted, less hardware, $59.95.

●

GRUMMAN BOATS, INC.
MARATHON, N. Y.

ALUMINUM CANOES

7 models from 13 ft. to 20 ft.; from 45 to 113 lbs. Styrofoam flotation fore and aft insures maximum safety. Built of two identical hull halves, flush riveted and fully heat treated; all ribs, thwarts and seats are pressed from wrought aluminum for greater strength; keels and gunwales are solid extrusions. The Grumman sailing rig converts the Grumman aluminum canoe into a sailing craft. Rig includes nylon sail, aluminum spars and mast, leeboards and spreader bar, tilt-type rudder and adapter, mast step and thwart and all necessary lines for rigging. The larger sail rig (Gunter) can be reefed down on a roller-type boom. Sailing equipment can be installed at any time, as can the outboard motor bracket.

DINGHIES

The Grumman built (Rhodes Designed) 8½ feet dinghy. Two models: the standard Rowing Dinghy, and Dinghy for sailing. Fitted with outboard motor mounts on stern to take small size motors. Length, 103½". Weight, 78 lbs.

15' SPORT BOAT AND CANOE

Will support recommended size motor and normal load if accidentally swamped, and can be stored out of doors the year around. Heat treated hulls.

●

GUNDERSON CATAMARAN CO.
P. O. BOX 88
BELMAR, N. J.

GUNDERDINK

10'4" 98 lb. car-topper is made of marine mahogany plywood, oak keels, mahogany transom and gunwales. Craft holds 4 adults or 6 children comfortably and can be sailed, rowed or used with small outboard. Price, $295, with nylon sails, complete but unvarnished.

GUNDERPRAM 8

8' pram has 50" beam and 42 sq. ft. nylon sail, cat rigged. Features of construction include white fir or spruce mast, stainless rigging, mahogany plywood construction and oak chines, gunwales and keel. Price, from $59, hull only. Also available is Gunderpram 12, 12' with 62 sq. ft. sail, sloop rig. Hull kits from $89.

●

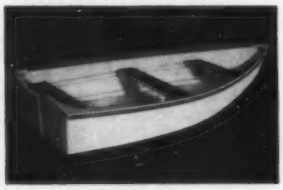
HAMPDEN WOOD PROD.
155 RIVER ST.,
WEST SPRINGFIELD, MASS.

V-PRAMS

8' and 10' plywood-built prams.

ROWBOATS

12' plywood car top boat and 12' and 14' pine side rowboats with pine or plywood bottom.



ANGLER

12' plywood car-top boat, with 50" beam and 16" depth. Weight is 98 lbs.

ARISTOCRAT

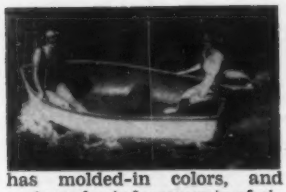
14' salt water lapstrake dory weighs 140 lbs., has beam of 53" and depth of 19".

●

CHARLES HANKINS & SONS
HGWY NO. 35, LAVALLETTE, N.J.

LIFE SAVING BOAT

16'x5'3". This life saving boat is the same type used on the Jersey shore. Lapstreak



has molded-in colors, and seats and reinforcements of either varnished mahogany or fiberglass. Boat can be used with outboards up to 5 hp. Prices: $169, fiberglass trim; $199, mahogany.

●

PERE MARQUETTE FIBERGLAS BOAT CO., INC.
SCOTTVILLE, MICH.

SQUARE STERN CANOES

Fiberglass canoes are made in two models, 16′ x 36″ utility, and 18′ x 42″ cargo, both with square sterns. 16′ model is recommended for use with 3.5 HP motor, 18′ with 7.5 HP. Prices, $250 and $295.

16′ SCOUT CANOE

16′x36″ fiberglass canoe weighs 82 lbs. Also available is Woodsman canoe, same dimensions, weighing 75 lbs. Prices: Scout, $225; Woodsman, $235.

●

ROBERTS INDUSTRIES, INC.
39 POST ROAD
BRANFORD, CONN.

SEA SHELL PRAMS

8′x48″x16″ pram can be used with 3 hp motor, and is also available as 10′ model. Both are offered as kits, ready-to-paint or complete. Price: 8′ kit, $59.50; 10′ kit, $90.

●

SUDBURY LABORATORY
SUDBURY, MASS.

TRANSPARENT BOAT

8′ x 47″ x 19″ Dinghy of transparent plastic construction, weighs 44 lbs. and will carry up to 600 lbs. Mahogany seats and gunwales. Rated to carry 3-HP motor. Price, $199.95.

●

SU-MARK, INC.
STONE ST., WALPOLE, MASS.

DINKY

8′2″ family boat weighing 60 lbs. Has two position rowing

construction gives dependable performance. Original Sea Bright Dory.

●

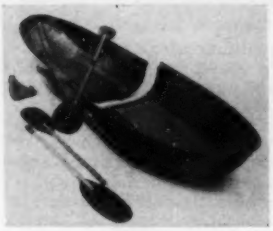
HENDERSON PLASTIC ENGINEERING CORP.
HENDERSON, KY.

DUCK BOAT

Centerline length 11′1″, beam 61″, hull weight 137 lbs. Fiberglass construction, with transom height of 15″. Priced at $229.95.

●

GEORGE O'DAY
9 NEWBURY ST., BOSTON 16, MASS.



PIXIE

Molded mahogany rowboat that features 2-piece construction for easy storage (assembled in 30 seconds). Two seater, 10′ long, 45 lbs. weight, $145; single seater, 7′8″ long, weight 35 lbs., $135.

●

OLD TOWN CANOE CO.
OLD TOWN, ME.

OCTA MODEL CANOE

Lengths made 16′ to 18′, 34½″ to 37″ width, depth amidships all 13″. Wide, flat floor and convex sides. Price, $225 to $245.

SPONSON CANOE

Named Sponson from the air chambers built out each side and extending stem to stern, they give stability and buoyancy. Sponsons add 25 lbs. to boat. Are built to order. Oarlocks also available. Made in 16′ to 18′ lengths, and from 42½″ to 45″ wide, 13″ uniform depth, weight 95 to 120 lbs. Price, open mahogany gunwales: $285 to $305.

OLD TOWN SKIFF

Rowing and outboard skiffs range from 10′ to 16′, with rowing skiffs suitable for use with motors up to 7½ HP, and outboard skiffs for motors up to 20 HP. Boats feature lapstrake construction, with bottom and side boards of red cedar; frames, knees and gunwales are oak or ash. Prices: from $195 to $310. Available accessories include waterproof covers and hoods for motors.

●

PEARSON CORP.
1 CONSTITUTION ST.
BRISTOL, R. I.

PEERLESS CUB

8′ fiberglass dinghy or tender

ULMER SAILS LEAD AGAIN

Some of our National and International Champions

LIGHTNING CLASS
William P. Clausen III, South Jersey Champion
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JET 14 CLASS
Arthur Lange, Jr., Junior and National Championships

SNIPE CLASS
Duque-D'Arion, Championship of Spain
Ray Kaufman, Long Island Champion
Terry Whittemore Florida State and Midwinter Champion

COMET CLASS
John M. MacCausland, Class Champion (mainsail)

MOTH CLASS
George Spieker, International Champion, Junior National Champion

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A. V. Nicholson, National Champion
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R. H. Legard, Atlantic Coast Champion, 1958-1959
Douglas MacGregor, Huntington, L.I. Fall Series, Winner (52 boats 1st & 2nd)

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Peter Beamish, W.L.I.S. Fleet, Champion
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Vittorio Porta, Champion of Italy, 1958

CHARLES ULMER, INC. *Sailmakers*

CITY ISLAND 64, New York, CI 8-1700 and Annapolis, Md., CO 3-5020

and high mobility. Rugged enough to handle a small motor. Priced from $129.50.

TOPPER
12′ fiberglass family boat with built-in flotation. Safe, light, easy to handle. Will handle up to 10 HP. Price, $249.50. Easily portable.

●

JAY V. ZIMMERMAN CO.
BOX 3402, ST. LOUIS 17, MO.

Z-BOAT DINGHY
Length 5′, width 3′, 12″ deep. Weight 12 lbs. Molded of Dylite solid 2″ thick. Can be left in water indefinitely. Price of the all-purpose Z-Boat Dinghy, $40.

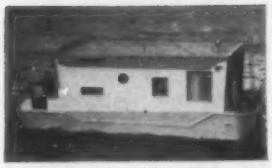
HOUSEBOATS

●

CATALINA
AMPHIBIOUS HOMES, INC.
303 S. HOWLAND AVE.
ELKHART, IND.

33′ CUSTOMLINER
33′ x 8′ x 8″ houseboat has steel hull, is amphibious, and sleeps 6. Features include built-in dinette, draperies, 4 bunks, steering wheel, 2-burner surface gas plate, combination gas-electric refrigerator, LP gasheater, electric water heater, 30-gal. fresh water tank, marine toilet and bilge pump. Accessories are available. Price: $4695. Company also offers non-amphibious 33′ Southern Belle deluxe houseboat, complete less motor. Price: $5495.

CATALINA HOUSEBOAT
27′ model with steel hull and



aluminum superstructure. Galley, stove, refrigerator, sink, cupboards, shower, toilet. Sleeps 4. Has safety rail for children and 8″ draft for shallow areas. Uses 25 to 35 HP motor, cruises to 10 mph. Amphibious design: has retractable wheels, meets requirements for highway travel.

●

DREAMBOAT MFG. CO.
BOX 212, GUNTERSVILLE, ALA.

HOUSEBOATS
Two models are offered con-

structed of oak framing, Douglas fir marine plywood covered with fiberglass. Entire exterior has permanent colors moulded in. Cabin ceilings are paneled and insulated with 2″ fiberglass wool. Jalousie windows. Price of 30′ Sunliner is $3,795, complete with standard equipment; 25′ Vacationer, $2,895. Full line of optional equipment.

●

DUBUQUE BOAT & BOILER CO.
302 E. 3RD ST., DUBUQUE, IOWA

HOUSEBOAT
42′x16′ overall dimensions include 40′x12′x3′9″ all-steel hull, with 27′x12′ cabin, providing two lounges, full galley, head with shower, pressure water system. Also snack bar and wardrobe closets. Hull is constructed with three watertight compartments, and engine compartment is completely aft of cabin area. Standard power is Chrysler 125 HP Crown, with dual engines of any selection as optional equipment.

●

GRAFTON BOAT WORKS
GRAFTON, ILL.

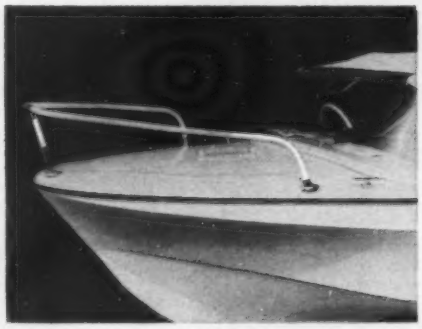
32′ DRIFT-A-LONG
32′x11′3″ houseboat sleeps 6, and is equipped with 60 HP Gray Marine engine with Walters Vee-drive, achieving speed of approximately 11 mph. Hull is Vee-bottom, scow bow, made of 11 gauge steel with 10 gauge chines and keel. Standard features are ice box, plywood-finished interior, enameled steel cabinets and porcelain sink, Marmac steering control, Graymarine instrument panel, electric horn and stove. Price, $9,808. Manufacturer also offers houseboats from 35′ to 40′, ranging in price to $18,000.

35′ SPORTSMAN
35′x12′x2′5″ houseboat has a large cabin with all necessary

Smart and Sturdy
Big and Beautiful
RUNABOUT RAIL

FIRST FOREDECK RAIL EVER DESIGNED FOR RUNABOUTS GIVES ADDED SAFETY AND "BIG BOAT" GLAMOUR!

Clean, simple lines with built-in adjustability to fit most boats in the 14-22 foot range. Custom look at budget prices.



Two sizes . . . Vinyl-sheathed aluminum or chrome-on-brass.

$29.50 AND UP

From your Marine Supplier or write direct

SEA MATE PRODUCTS COMPANY • P.O. BOX 210 • CLARKS SUMMIT, PENNA.

AIROLLERS . . . let you trail your boat anywhere!

AT YOUR DEALER OR WRITE FOR DESCRIPTIVE FOLDER

Airollers make "difficult" launching places easy! Park your trailer at side of road, unload your boat onto 2 Airollers—almost frictionless, large canvas-rubber lined cylinders, inflated to a low pressure by mouth. Roll even heaviest boat to water on this cushion of air over mud, rocks or soft sand with no damage to hull or paint!

Outboard Airoller . . . . boats to 700 lbs. . . . $ 9.95 each
Standard Airoller . . . . boats to 1200 lbs. . . . $17.50 each
"Super Tuff" Airoller . boats to 1800 lbs. . . . $24.50 each
Cruiseroller . . . . . boats to 3000 lbs. . . . $39.50 each

The AIROLLER Co. • 211 Broad Street, Guilford, Conn.

SEVENTH ANNUAL
JERSEY COAST
BOAT SHOW
CONVENTION HALL, ASBURY PARK, N. J.
FEBRUARY 20 - 28
JERRY GASQUE DIRECTOR

- *See* The largest selection of real Jersey Sea Skiffs!
- *See* The fabulous Herbulot designed overnite auxiliaries plus the Mala "20" Sloop!
- *See* The only boat show staged directly over the Atlantic ocean!

Note: One mile from Garden State Pky. at Asbury Park Exit

Show Hours: Weekdays — 1 P.M. to 11 P.M.
Sundays — 11 A.M. to 7 P.M.

equipment to live aboard. Entire hull, cabin and all exterior parts are made of steel with interior finished with deluxe satin Philippine mahogany with white acoustical tile ceiling. Boat has all appointments of the 32′ Drift-A-Long and includes shower, bottle gas stove, heater and many other items. Price, $13,500.

●

HOLIDAY BOATS
135 EATON ST.
ST. PAUL 7, MINN.

HOLIDAY 30

30′x10′x7″ draft boat has hull depth of 35″. Hull is of spoonbill design, made of 12 gauge welded steel reinforced with cross members, with cabin exterior of aluminum and interior with mahogany paneling. Catwalk 1′ wide extends around entire cabin, and houseboat has 7′ foredeck and 4′ afterdeck. Features include sleeping accommodations for 6, salon, galley with sink, water pump, two burner gas stove, cabinets, formica top table, hanging clothes closet, head, and 12-volt wiring. Steering is mechanical from front operating position. Price: $5600.

HOLIDAY 21

21′x7½′ houseboat has 5″ draft, hull depth of 28″. Hull is of heavy gauge welded steel, with cabin exterior of aluminum. Features include sleeping accommodations for 4, galley with stainless steel sink, marine-type water pump and icebox, head with sea closet, 12 volt wiring and storage under front and rear decks, davenport and dinette seats. Price: $2995.

●

IMPERIAL WINDOW & MFG. CO.
MARINE DIV.
25992 W. EIGHT MILE RD.
DETROIT 41, MICH.

CABIN CRAFT

Cabin Craft is non-sinkable, featuring heavy gauge aluminum pontoons filled with Styrofoam, giving twin bulkheads and maximum flotation. All-aluminum construction will not chip, peel, rust or corrode. Features an all-enclosed cabin which offers room for sleeping 4 persons. The 8′ x 16′ Cabin Craft will support in excess of 4,000 lbs.

●

RICHLAND MFG. CO.
RICHLAND, MISSOURI

RICH LINE

All aluminum construction

and styrofoam flotation are features of the new RichLine Holiday houseboats. Pictured above is the 35 footer, which sleeps 8 persons, and is as fully equipped as any shoreside home. Conveniences include 3 lighting systems, 30 gal. fresh water tank, propane stove with oven, sink, Atwood marine toilet, divan which converts to a double bed, Marmac heavy duty steering, and rockwool insulation for comfortable temperatures during weather extremes. The bottom is heavily reinforced for strength, and three 5″ bottom keels afford course-keeping stability. The 32-foot model sells for $5,750, the 35-footer for $6,800. A demonstrater is maintained by the East Coast dealers, P. Carbone, 184 Bleecker St., New York 12, N. Y.

●

RIVER QUEEN BOAT WORKS
6655 E. DUNES HWY.
GARY, IND.

OHIO

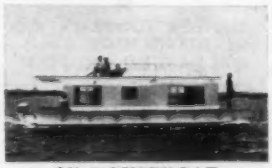
Length 33′, width 11′, draft 8″. Hull material 12 gauge steel. Sandwich construction superstructure. Forward deck 11′ x 8′; stern deck 4′ x 8′. Power 30 to 70 HP inboard or outboard. Speeds to 12 mph. Also offered is the Mississippi 40′ x 13′.

●

STAMAS BOATS, INC.
300 PAMPAS AVE.
TARPON SPRINGS, FLA.

27′ HOUSEBOAT

27′ x 10′ x 36″ houseboat is of marine plywood, cruises at 8 to 9 mph with 35 HP outboard motor, has 8′ x 15′ sun deck on cabin top, and vinyl flooring in cabin. Standard equipment includes propane gas stove, sink, ice box, folding dining table, marine toilet, 12-volt wiring system, sofa bed and complete steering. Price, $4,250 complete.



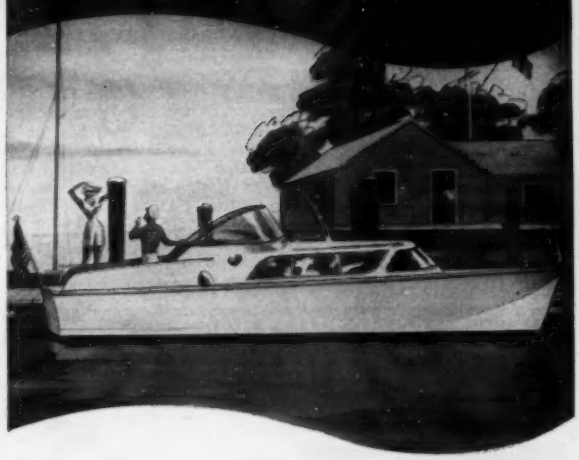
36′ HOUSEBOAT

36′ x 14′ x 36″ houseboat is of marine plywood, and features 10′ x 28′ sun deck on cabin top. Cabin has vinyl flooring.

Another FIBERGLASS BOAT *by Pearson . . .*

Pearson 30

STRIKING 30-FOOT CRUISER!



First fiberglass stock model cruiser of this size offered at price competitive with quality boats of traditional materials. Marine Architect Robert Harris combines sleek styling with roomy comfort of luxury cruisers. PEARSON 30 makes prime use of every inch of space, accommodates six with ease. Teak trim throughout. Power option in single or twin screws utilizing motors from 125 HP to 225 HP.

For long life, cruising comfort, modern marine styling and low maintenance, the PEARSON 30 can't be beat.

It will be unveiled at the 1960 New York and Chicago Boat Shows. Request descriptive literature.

PEARSON CORPORATION
Dept. P-2
One Constitution Street, Bristol, R. I.

Standard equipment includes propane gas stove, refrigerator, sink, dinette table, marine toilet, shower, 12-volt and 110-volt system wiring, two sofa beds and complete steering. Houseboat sleeps 6, and on special order can be made to sleep 8. Price, $8,450 complete.

●

TERRA-MARINA MFG. CO.
2214 WASHINGTON AVE.
HOUSTON 10, TEX.

LAND AND WATER CRUISER

Model D features large fore and aftdecks, sun deck on top, and is completely equipped as a self-sustaining land and water cruiser. Facilities include foam rubber cushions throughout, fresh water tank, galley pump, stove, sink, icebox, two lighting systems and fiberglass insulation. Price, $2,695. Four other models of amphibious craft ranging in price from $1,695 to $3,695 are available, including a two-room model with sleeping accommodations for nine.

●

TRAIL-IT COACH MFG. CO.
5830 SECOND AVE.
DES MOINES, IOWA

TRAIL-IT CRUISER

26′ amphibious cruiser has 8′ beam and is equipped for land and water travel. Cruiser has retractable wheels, sleeps 4, and features 8′x16′ fiberglass sun deck, heavy-duty windshield, interior paneled in mahogany ribbon grain, complete kitchen with two-burner LP stove, icebox, 20 gallon fresh water storage tank and 6, 12 or 110 volt system. Vee bottom hull is of 13 gauge steel coated with anti-corrosive paint and reinforced with steel channels. Weight is 2,960 lbs.

NOVELTY BOATS

●

AIRBOATS, INC.
3323 N. FLORISSANT AVE.
ST. LOUIS 7, MO.

AIRBOY SPECIAL DELUXE

The Airboy Special is a boat designed with the sportsman in mind. Its pointed bow and veed bottom makes it possible to not only operate in shallow water, but also in the deepest, where rough water is often encountered. The hull is constructed of special .064 aluminum, treated for salt water use. Power is supplied by a 4 cylinder opposed 65 hp Continental Aircraft engine. Oil cooler optional, for increased cooling. Price, with guaranteed rebuilt engine, $2385 for deluxe, $1995 for standard. Price with new engine on request. A number of other models are offered by Airboats, Inc.

●

AMERIMEX CORP.
122 W. 30th ST.
NEW YORK 1, N.Y.

AIRBOAT

12½′ long inflated and weighs 23 lbs. when rolled into compact 10″x19″ package. Constructed of fabric-laminated, rubber, the Airboat inflates in 2 minutes and is ideal with outboard, sail or paddle. Price of $159.50 includes foot pump, 2 sets of back seat cushions, 2 wooden back rests, floorboards, spare parts kit, and carry duffle bag. Two Airboats can be joined together by nominally-priced bracket giving a catamaran-speedboat effect.

●

BOATEL CO.
DIV. OF KLAPMEIER INDUSTRIES
MORA, MINN.

PONTOON BOATS

Boatel pontoon units are furnished in kit form or fully assembled. Pontoons are constructed of 16-gauge Core-Ten steel which has an extremely high tensile strength. Available in four standard models; 8′ x 8′; 8′ x 12′; 8′ x 16′; and 8′ x 20′. A trailer for transporting the pontoon boat is available. Designed to use from 5 to 50 HP motors.

●

CRIPE EQUIPMENT CO.
SYLVAN DIVISION
WOLCOTTVILLE, IND.

SYLVAN PONTOON BOATS

The Sylvan Pontoon Line starts at the 8′ model and is available up to 20′ model that sports 26′ pontoons. A trailer is available for ease in transportation. In addition, there is the sportsman's pontoon, the Sylvan 4-Way Unit, complete with tent and built-in trailer.

●

DUCRAFT BOAT CO.
BOX 354, PORT ORANGE, FLA.

DUCRAFT WATERBUG

16′4½″ in length, 88″ beam, hull weight 750 lbs. Plywood construction. Cabin cruiser is priced at $1,445.

●

FIBER FOAM MARINE PRODS.
BOX 774, ELM GROVE, WIS.

PLAY-BUOY RAFT

The Play-Buoy raft is made of fiberglass with bonded polystyrene and weighs 80 lbs., but will support 1,600 lbs. It is water stabilized to prevent side movements. Ideal for open water or in pools.

●

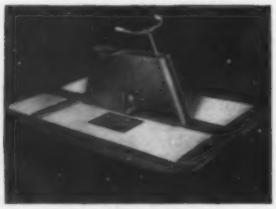
FREELAND SONS CO.
STURGIS, MICH.

AQUA PATIO

Pontoon boats feature decks of ⅝″ marine plywood finished with non-skid paint, galvanized steel pontoons. Canopy is vinyl-coated nylon. Shipped dismantled; complete assembly for factory pickup at extra cost. Made in three sizes: 8′x10′ deck with 14′ pontoons, weight, 700 lbs., motor capacity to 12 hp; 8′x14′ deck with 20′ pontoons, weight, 1,000 lbs., motor capacity to 40 hp; and 8′x16′ deck with 22′ pontoons, weight, 1,200 lbs., motor capacity to 40 hp. Prices: 10′, $395; 14′, $595; 16′, $695.

●

HAMPDEN WOOD PRODUCTS
155 RIVER ST.
WEST SPRINGFIELD, MASS.



WATER BIKE

8′ Plywood built water bicycle.

●

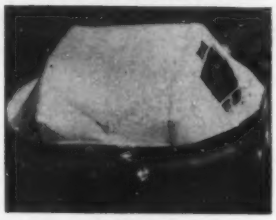
HANSON EQUIPMENT CO.
BOX 270, BELOIT, WIS.

PLEASURE CRUISER

Large 23½′ fiberglass twin-hulls bring extra safety to the Hanson Skipperline Pleasure Cruiser, Model S-235A. Foam-plastic filling is optional if added precaution is desired. Large 8′ x 16′ deck provides plenty of room for safe enjoyment of fishing, swimming and other activities.

●

C. J. HENDRY CO.
27 MAIN ST.
SAN FRANCISCO, CALIF.



ELLIOT INFLATABLE LIFE RAFT

Packed in sailbag size with all emergency equipment. Inflate in a few seconds when cord is pulled. In sizes for 4 to 25 persons.

●

HODGMAN RUBBER CO.
TRIPP STREET
FRAMINGHAM, MASS.

DRAG-'N-FLY TOW FLOTE

Using I-Beam construction with reinforcement features for the stress of starts and pulls, the Hodgman Tow Flote can be used in a reclining, kneeling, sitting or standing position. Two models are available, priced at $19.95 and $25.

●

HORST MFG. CO.
12675 HAGGERTY RD.
BELLEVILLE, MICH.

WATERBIKE

All metal, aluminum and steel. Pontoons support over 400 lbs. Length 9′, height 43″, weight 140 lbs. Price, $198 F.O.B. factory.

●

KAYE YACHT
PONTOON BOAT CO.
BOX 671, MANKATO, MINN.

KAYOT PONTOON BOATS

Outboard-powered catamaran pontoon boats have flat decks with capacity of 12 to 18 people. Pontoons are 19″ in diameter, made of 16-gauge steel, with seams overlapped and electrically welded. Boats are available in 4 sizes with deck sizes from 8′ x 13′ to 8′ x 25′.

●

LEPEL WATERSCOOTER
121 MALCOLM COURT
ELYRIA, OHIO

LEPEL WATERSCOOTER

6′3″ x 3′4″ reinforced fiberglass

DOW | **FLOTATION**

STYROFOAM®: chosen for "lifetime" flotation

This boat slip, being built for Cassville's Campbell Point boat dock and recreational area near Shell Knob, Missouri, will soon be a permanent floating installation. As the level of Table Rock Lake rises from the damming of the White River, this 116-foot by 40-foot unit will float free of its supports. And rough planks of Styrofoam* were chosen to provide permanent flotation!

Mr. Glenn Hall and Mr. Harry Wheeler, owners of the project, say, "These lightweight planks offer flotation superior to barrel-type structures. Other dock operators we talked to stated that Styrofoam has far greater 'lift' than metal barrels; and it won't rust or need replacement. We'll use Styrofoam for diving platforms and floats, too, because it is easy to cut and use, saving us time and money."

Low-cost Styrofoam is a rigid plastic foam containing millions of tiny non-interconnecting air cells. Water won't penetrate Styrofoam, won't waterlog it. Neither will punctures destroy its flotation properties. With Styrofoam, *buoyancy is permanent!*

Styrofoam requires practically no maintenance in either salt water or fresh water. It won't rust or rot, and it resists the attack of destructive marine growths and organisms. There's no need for costly periodic painting, repair or replacement. And it's easy to install. Styrofoam can be cut with hand tools and quickly nailed, doweled or strapped in place.

For more detailed information, write THE DOW CHEMICAL COMPANY, Midland, Michigan, Plastics Sales Department 2291GA2.

*Dow's registered trademark for its expanded polystyrene

THE DOW CHEMICAL COMPANY • MIDLAND, MICHIGAN

craft in two models. Model #1 has 1½ HP engine, hand starter, Styrofoam, will travel in close circle around rider should he fall off. Model #2 has 5½ HP engine, aircooled, inboard type, with electric starter, may be run in standing position like a surfboard, speeds to 20 MPH. Styrofoam flotation, stops if rider falls off. Prices, Model #1, $295; Model #2, $395.

●

MY-ON PRODUCTS CO.
407 N. MAPLE DR.
BEVERLY HILLS, CALIF.

GO-CRAFT
Fiberglass catamaran dinghy is complete with 2½ HP engine and direct drive capable of speeds over 12 mph. Craft is 6′ long, 40″ wide and weighs 65 lbs. It can carry 2 people, and be used as rowboat or sailboat. Price, $115.

●

NEW YORK RUBBER CORP.
100 PARK AVE.
NEW YORK 17, N. Y.

AIRUBBER MODEL S-20 ONE-MAN BOAT
Inflatable rubber boat weighs 10½ lbs., has molded oar locks and volume pump. Price: $42.85.

AIRUBBER MODEL S-40 TWO-MAN BOAT
Inflatable rubber boat has wooden transom board for outboard motor, molded oar locks and volume boat pump. Price: $104.75.

AIRUBBER MODEL R-80 PAK-BOAT
Inflatable rubber boat has two seats, wooden transom for outboard motor, carrying case and volume boat pump. Boat wt. 80 lbs. Price: $223.50.

●

NORTHWEST GEORGIA ENTERPRISES, INC.
P.O. BOX 266
ROME, GA.

TIP-TOP CRUISER
Cruiser consists of two 22′ long, 19″ diameter pontoons, channel steel deck supports, ¾″ marine plywood deck, railing, captain's wheel and stand and motor mount. Cruiser can be used with motors from 7½ hp to 18 hp, and is offered in two models, standard and deluxe, with either 8′x16′ or 8′x20′ deck. Pontoons are filled with Styrofoam flotation and also equipped with drain plugs. Prices: Standard, 8′x16′ deck, $797.50; 8′x20′ deck, $916; deluxe, 8′x16′ deck, $989.50; 8′x20′ deck, $1018. Also available are canopies, steering control kit and special trailer.

●

PIONEER FOLDING BOATS
206 E. 86TH ST.
NEW YORK 28, N. Y.

SINGLE SEATER 450 S
14′8″ x 25″ kayak-type boat weighs 41 lbs., and comes apart and folds for storage or transportation. Frame is of solid ash, hull of 5 ply natural rubber and deck is heavy duty canvas. Boat is German import. Price, $235, complete.

●

PEDAL BOAT CO. OF AMERICA
3585 COLLINS AVE.
MIAMI BEACH, FLA.

WATER-SKEETER
Floating on two fiberglass pontoons, the Water-Skeeter is available in the pedal model or the motor model, taking up to 3 HP. The Water-Skeeter is shipped complete, with detailed instructions. Passengers sit high above the water with an unobstructed view. Overall length, 9½′; weight about 125 lbs.

●

PLASTI-KRAFT CORP.
OLDSMAR, FLA.

SAFTI-SKIFF
7′11″x3′8″x1″ boat has solid foamed plastic body, and can be used with low power outboard motors or air motors. Features include mahogany marine plywood bottom, transom, seats and deck, sliding seats, oar locks and forward hatch. Price: $219.

●

POWER/SKI, INC.
3030 BRIDGEWAY
SAUSALITO, CALIF.

POWER SKI
Length overall 10′, beam 4′. Features pressure-molded glass fiber reinforced plastic hulls, filled with polyurethane, closed cell, rigid foam; remote

OLD TOWN FOR ADVENTURE

You're headed for fun and adventure when you get aboard an Old Town. Here's a boat with dash and spirit. She's fast, maneuverable, quick to respond—all set to take you wherever pleasure calls. She's lapstrake-built, easy to maintain, rugged, safe—as only wood boats can be. Make friends with an Old Town and you've got a pal for life.

Old Town lapstrakes come in a variety of sizes and models—the "14", "16", "18", and "20". The Old Town "14" illustrated gives you speeds to 40 mph, with 35 hp motor. Send today for your copy of the FREE CATALOG which describes Old Town lapstrakes, canoes, dinghies, sailboats and skiffs.

Old Town® BOATS

Old Town Canoe Co.
792 Middle Street, Old Town, Maine

SEE THE MOST OUTSTANDING DEVELOPMENTS IN PAINT TECHNOLOGY!

Federal gives you all the new "miracle" finishes, in *ready-mixed, one-package* plastic coatings you simply paint on! Now, with the ease of application of ordinary paints, Federal gives your boat the "years-ahead" beauty and protection of polyurethane and epoxy formulations!

SEE THEM AT THESE BOAT SHOWS:
NEW YORK • LOS ANGELES • BOSTON • MIAMI

THE FEDERAL PAINT COMPANY, INC., 33 RECTOR ST., NEW YORK 6, N. Y.
SAN FRANCISCO . . . NEW ORLEANS

WORLD'S LARGEST SELECTION

Plans
Patterns
Frame Pacs

Over 400 New Plans, Full Size patterns, Frame Pacs. Designed especially for the amateur. Prams, Racers, Cruisers, Utilities, Inboards, Outboards, in WOOD, PLYWOOD and STEEL. New longitudinal stressed models with revolutionary bulkhead construction-light, super strong. World's Largest selection.

Send 35¢ for 120 pg. PLAN CATALOG
Catalog plus "Boat Building Handbook"... Send $1.
Catalog plus "Hardware & Accessories Catalog & Armor Glass Catalog" covering boat repairs... Send $1.

Special Offer!
120 pg. PLAN & PATTERN Catalog — plus "Boat Building for the Amateur", "Boat Operation & Maintenance", "How to Paint, Outfit & Care for Boats" and "Armor Glass Manual" showing application and useage of fibre glass.
ALL FOR $2.00

CUSTOM • CRAFT, Buffalo 7A, New York

control hydraulic throttle with automatic shift; and laminated marine plywood engine mount with stamped aluminum and rubber shock pads. Ideal boat for resorts and boat-rental operators.

●

ROBERTSON-HEDGES, INC.
1518 McGEE ST., KANSAS CITY 8, MO.

DRAGONFLY ICE SLED
Ice sled has wind-break front, all tube-steel welded construction with a 2-bolt knock-down feature for easy assembly and transportation, 2 bucket seats, foot rests, remote throttle control, 3 hinged ice runners and drag brake. Shipping weight is approximately 100 lbs. Price, $179.50.

●

SELLECK WATERCYCLE CO.
N.W. 2nd AVE. AT 15 ST.
BOCA RATON, FLA.

STANDARD WATERCYCLE
Non-tip, self-balancing, non-sinkable twin-float craft operates by foot pedals, steers with handlebar. Attachment for outboard is available. Available in 2 types of kits, as well as assembled. Plans and parts sets which include all metal working parts ready to install, wood parts supplied by customer, are also available. Price, $375 finished. Kit, $213.

DOUBLE WATERCYCLE
8'x77", weight, 250 lbs. Has 2 independent paddlewheels that both drive and steer the craft. Requires 2 riders, either adults or children; 3 or 4 children can ride at one time. Craft has 3 floats and 2 housings side by side. Packed knocked-down in 5 cartons; can be assembled in about 1 hour. Price, $625, complete. Kit, $329.

●

STARLINER BOATS
BOX 474, CLINTON, N. C.

STARLINER-SYLVAN 16
Construction of pontoons are of 16 gauge specially treated steel with interior reinforcement. Railings and tubing are covered with a plastic armor, chip-proof, color fast and immune to moisture and corro-

sion. Prices are $599.50 for 8' x 8'; $785.40 for 8' x 12', $956.60 for 8' x 16', and $1,099.50 for 8' x 20'. Special trailer for any size pontoon, $399.50.

●

TRAIL-IT COACH MFG. CO.
5830 SECOND AVE.
DES MOINES, IOWA

TRAIL-IT LAND AND WATER CRUISER
The new Trail-It Land and Water Cruiser is 28½' long, 8' wide and features retractable wheels with electric brakes. Hull is steel and designed with semi V-bottom. Equipped with galley, toilet, clothes closet, dinette and sleeps 6. Price, $4,785.

●

TRAIL-CRAFT CORP.
PHILIPPI, W. VA.

TRAIL-CRAFT
The Trial-Craft offers the features of a boat, sun deck, diving platform, duck blind, tent, and trailer, all in one. Length 9'4", width 58". Steel welded construction, 20 gauge sheet metal. Takes up to 10 HP. Price, including tent and cots, $499.50.

●

WEERES PONTOON BOAT CO.
P. O. BOX 854
ST. CLOUD, MINN.

DELUXE HOLIDAY
7½' x 16' deck-size pontoon boat can carry safe deck load of 2200 lbs., includes sheet metal splashguards, compartmentized pontoons, sectioned railing, two anchor brackets, lever-type adjustable motor mount, cross channels and bolts. Pontoon boats are also available with deck sizes of 7½' x 12' and 7½' x 20', in either deluxe or standard models. Price: Deluxe Holiday, $710; Holiday, $650.

●

JAY V. ZIMMERMAN CO.
BOX 3402, ST. LOUIS 17, MO.

UTILITY RAFT
Molded solid 5" thick. Will support over 250 lbs. Has bands of webbing to support occupants lying down or sitting up. Can be left in water indefinitely. Model ABR priced at $12.00.

TIME FOR REFLECTION

Are you getting your full share of enjoyment out of life? If not, let us recommend sailing a 17' planing Thistle. Throw cares to the winds and join in the fun of sailing with the ever growing Thistle Class Association.

The Thistle is designed to move in the lightest air; can be cruised or raced with a crew of three. She tows well and is the easiest boat on the market to launch and rig.

You will find the Thistle is the "boat ahead" when it comes to storage. She can be stored in any garage because of her length. New polyester paints and varnishes make her easily maintained. She is available in completed boat or Do-It-Yourself kit form with Can't-Miss instructions.

Write for free brochure and full particulars today:

DOUGLASS and Mc LEOD Inc.
BOX 311-P PAINESVILLE, OHIO

MARINE ENGINES

UNLESS YOUR'S IS A SAILBOAT, you are completely dependent upon the power plant. Marine engines, both inboard and outboard have been refined, improved, and re-engineered in the past five years or so, and faultless operation is taken for granted by the boatman. Recent ocean crossings, and long distance races have further proven engine dependability for prolonged running.

No matter how well engineered an engine is, however, an additional insurance policy is your program of careful operation and maintenance. Every boatman should have an instruction manual for the engine in a waterproof envelope aboard his craft—if you do not have one, then write to the makers and get one. When engine roughness develops you can use the instructions as a trouble-shooting guide.

Outboards

Outboard motors for 1960 are more powerful than ever, and although this greatly extends the speed and size of craft that can be outboard powered, some problems are presented. With large engines, remote steering is a necessity. Although hand steering can be used in an emergency, the thrust of motors close to 100 hp is much too great for manual operation. Controls should be well engineered with a minimum of friction where the cables pass over sheaves. Hydraulic and electric controls also work well with the new motors. Quietness of operation and minimum maintenance are 1960 features. Fiberglass hoods, anodized cooling passages, and slip clutches to replace shear pins are being offered by many companies. Thermostatic cooling works toward eliminating the old bugaboo of hot or cold-running powerheads, and operating temperatures are preset at the factory for maximum efficiency.

Inboards

The use of aluminum alloys for inboard engines marks an innovation in the marine field, and 1960 will see more of this lightweight, strong material going into engines. With the Veed profile and aluminum alloys, horsepower is going up and greater payload can be carried with a smaller, lighter power plant.

Diesel engine design has inherited much from new metallurgy also, and propulsion plants using this high flashpoint fuel are recently coming down to lighter sizes and weights. One company has announced a diesel line that will run on almost any hydrocarbon fuel, which will interest boatmen who operate where more common fuels are in short supply.

New thinking in the internal combusion engine is also taking place. Recently, a German firm, in cooperation with an American corporation, announced development toward a gasoline engine with only two moving parts which will develop about 1 horsepower for each pound of engine weight. Such improvements could have a large effect on the future marine market.

Inboard-Outboard Drives

What was an infant idea in 1959 is becoming a standard item for the designer's repertoire today, as the versatile outboard lower unit is coupled to inboard engines. Long distance ocean races, and punishing marathons have proven that these units can take it. The fuel savings possible with the 4-cycle engine, as well as the ease with which boats having a retractable lower unit may be trailered and beached, indicate that such combinations will become more widely used in new stock boats.

An Engine For Every Purpose

In addition to all the other improvements, manufacturers of inboards have given a great deal of thought to the "engineered" package for twin screw installation where space is at a premium. Reduction and reverse gears, as well as the versatile "Vee" drive, offer greater inboard flexibility than ever before.

In this section of POPULAR BOATING's annual Directory and Show Issue, will be found a complete rundown of outboard and inboard engines to serve as a guide if you are thinking of installing an engine in a new boat, or repowering the one you presently own.

Don't Forget the Prop

Efficient use of power depends upon using a prop of the correct diameter and pitch for the hull shape and weight. Be sure to consult your dealer or engine maker if you suspect that faulty propeller matching is robbing you of efficiency.

CHECK LIST FOR POWER PLANTS

- ☐ **Do you have enough experience to match an inboard or outboard motor to a boat? If not, can you secure the services of a reliable dealer?**
- ☐ **What kind of service will you expect from a power plant—economy of operation, or high speed performance?**
- ☐ **Will an inboard engine or outboard motor best fit your requirements?**
- ☐ **Remember engine weight affects the trim of a boat. Is your engine weight tailored to the hull?**
- ☐ **Will you be able to do your own maintenance? If not, a detachable motor simplifies repairs.**
- ☐ **Do you trail your boat, or is it moored afloat? This can affect your choice.**

OUTBOARDS

- ☐ **High horsepower motors are frequently unsuited for small boats. Can your dealer advise you?**
- ☐ **Do you wish to enter the racing field, or cruise at slower speeds? There are different motors for each service.**
- ☐ **Will the children operate the motor? They may be safer with a conservative horsepower size.**
- ☐ **Electric starting, or manual? There is a difference in price and convenience.**
- ☐ **Would twin engines better fill your needs?**

INBOARDS

- ☐ **Have you measured the available space for a new installation? Manufacturer's specifications can save buying an oversized engine.**
- ☐ **Would a Vee drive help to conserve valuable space? Reduction gears improve performance?**
- ☐ **What cruising range would you like to attain? Manufacturers can sometimes supply gas consumption figures.**
- ☐ **What kind of service will the engine perform? There are high torque, high rpm engines for racing runabouts, and slow turning, powerful plants for heavy cruising hulls.**
- ☐ **Have you checked with your dealer to see if he will accept a trade-in on your old engine? This can sometimes save you money.**

OUTBOARD MOTOR CHART FOR 1960

COMPANY	MOTOR MODEL	HP	PISTON DISPL.	NO. CYLINDERS	STARTER	GENERATOR AVAILABLE	WEIGHT	LONG SHAFT AVAILABLE	PRICE
Air Boats, Inc. 3323 N. Florissant St. Louis 7, Mo.	Airplane-type air drive prop outboard								
	Model 50	5	—	—	—	—	47 lbs.	—	$239.00
	Model 20	2	—	1	—	—	38 lbs.	—	$179.50
American Mare Inc. 1601 W. Florence Ave. Inglewood, Calif.	Diesel outboard	7½	—	-	—	—	—	—	—
British Sea Gull Poole, Dorset, England	Forty	1	—	1	manual	—	26 lbs.	—	$130.00
	Forty Plus	1½	—	1	manual	—	28 lbs.	yes	$140.00
	Century 100	3-4	—	1	manual	—	34 lbs.	yes	$175.00
	Century 100 Plus	3½-5	—	1	manual	—	37 lbs.	yes	$190.00
	Century 100 Clutch	3½-5	—	1	manual	—	40 lbs.	yes	$205.00
Evinrude Motors Milwaukee 16, Wis.	Lightwin	3	5.28 cu. in.	2	manual	—	33 lbs.	yes	$160.00
	Fisherman	5½	8.84 cu. in.	2	manual	—	55.5 lbs.	yes	$235.00
	Sportwin	10	16.6 cu. in.	2	manual	—	67 lbs.	yes	$325.00
	Fastwin	18	22.0 cu. in.	2	manual	—	79 lbs.	yes	$395.00
	Big Twin	40	43.89 cu. in.	2	manual	—	129 lbs.	yes	$525.00
	Lark II	40	43.89 cu. in.	2	electric	—	139 lbs.	yes	$640.00
	Starflite II	75	89.46 cu. in.	4	electric	—	216 lbs.	yes	$895.00
Firestone Tire & Rubber Co. Akron 17, Ohio	Featherweight 2	2	3.76 cu. in.	1	manual	—	28 lbs.	—	$125.00
	Viscount 8	8	11.97 cu. in.	2	manual	—	57 lbs.	—	$275.00
	Viscount 12	12	17.72 cu. in.	2	manual	—	59 lbs.	—	$315.00
	Viscount 40	40	42.18 cu. in.	2	electric	yes	137 lbs.	yes	$625.00
Gale Products Galesburg, Ill.	Buccaneer 3	3	5.32 cu. in.	1	manual	—	29 lbs.	—	$145.00
	Buccaneer 5	5	8.84 cu. in.	2	manual	—	55 lbs.	yes	$230.00
	Buccaneer 15	15	19.94 cu. in.	2	manual	—	77 lbs.	yes	$350.00
	Buccaneer 25	25	35.7 cu. in.	2	manual & electric	yes	115 lbs.	yes	$465.00 man. $560.00 elec.
	Sovereign 35	35	40.5 cu. in.	2	manual & electric	yes	133 lbs.	yes	$500.00 man. $674.50 elec.
	V Sovereign	60	70.7 cu. in.	4	manual & electric	yes	205 lbs.	yes	$770.00 man. $934.50 elec.
Gamble-Skogmo, Inc. 15 No. 8th St. Minneapolis, Minn.	25-7960	3.6	6.23 cu. in.	1	manual	—	36 lbs.	—	$114.95
	25-7988	7½	10.0 cu. in.	2	manual	—	34 lbs.	—	$219.50
	25-7994	12	16.4 cu. in.	2	manual	—	70 lbs.	—	$289.50
	25-7998	25	29.97 cu. in.	2	manual	—	106 lbs.	—	—
	25-7999	25	29.97 cu. in.	2	electric	yes	118 lbs.	—	$479.50
	25-8000	25	29.97 cu. in.	2	electric	yes	123 lbs.	yes	—
	25-8019	40	42.18 cu. in.	2	electric	yes	141 lbs.	—	$569.50
	25-8020	40	42.18 cu. in.	2	electric	yes	146 lbs.	yes	—
	25-8024	60	63.27 cu. in.	3	electric	yes	170 lbs.	—	$799.50
	25-8025	60	63.27 cu. in.	3	electric	yes	176 lbs.	yes	—
Goodyear Tire & Rubber Co. Akron 16, Ohio	Sea-Bee	3	5.32 cu. in.	1	—	—	32 lbs.	—	—
	Sea-Bee	5	8.84 cu. in.	2	—	—	51 lbs.	—	—
	Sea-Bee	12	17.89 cu. in.	2	—	—	77½ lbs.	—	—
	Sea-Bee	35	40.5 cu. in.	2	—	—	128 lbs.	—	—
	Sea-Bee	35	40.5 cu. in.	2	yes	yes	137 lbs.	—	—
Johnson Motors Waukegan, Ill.	Sea Horse 3	3	5.28 cu. in.	2	manual	—	33¼ lbs.	yes	$160.00
	Sea Horse 5½	5½	8.84 cu. in.	2	manual	—	55½ lbs.	yes	$235.00
	Sea Horse 10	10	16.6 cu. in.	2	manual	—	67 lbs.	yes	$325.00
	Sea Horse 18	18	22.0 cu. in.	2	manual & electric	—	77 lbs.	yes	$395.00
	Sea Horse 40 Super	40	43.9 cu. in.	2	manual	—	127 lbs.	yes	$525.00
	Sea Horse 40 Super	40	43.9 cu. in.	2	manual & electric	yes	139 lbs.	yes	$640.00
	Sea Horse 75	75	89.5 cu. in.	4	manual & electric	yes	216 lbs.	yes	$895.00
McCulloch Corp. Marine Products Div. 2901 E. Hennepin Ave. Minneapolis 13, Minn.	Scott 3.6	3.6	6.23 cu. in.	1	manual	—	36 lbs.	—	$132.50
	Scott 7.5	7.5	10.0 cu. in.	2	manual	—	34 lbs.	—	$249.95
	Scott 12	12	16.4 cu. in.	2	manual	—	70 lbs.	—	$319.95
	Scott 25	25	29.97 cu. in.	2	manual & electric	yes	106 lbs. 118 lbs.	yes	$450.00 man. $530.00 elec.
	Scott 40	40	42.18 cu. in.	2	manual & electric	yes	130 lbs. 141 lbs.	yes	$550.00 man. $650.00 elec.
	Royal Scott 40	40	42.18 cu. in.	2	electric	yes	141 lbs.	yes	$700.00
	Flying Scott 60	60	63.27 cu. in.	3	electric	yes	170 lbs.	yes	$895.00

(continued on next page)

COMPANY	MOTOR MODEL	HP	PISTON DISPL.	NO. CYLINDERS	STARTER	GENERATOR AVAILABLE	WEIGHT	LONG SHAFT AVAILABLE	PRICE
Mercury Motors	Merc 60	6	7.2 cu. in.	2	manual	—	46 lbs.	—	—
Kiekhaefer Corp.	Merc 100	10	18.5 cu. in.	2	manual	—	77 lbs.	—	$320.00
Fond du Lac, Wis.	Merc 150	15	18.5 cu. in.	2	manual	—	83 lbs.	—	$355.00
	Merc 200	22	22.0 cu. in.	2	manual	—	88 lbs.	—	$420.00
	Merc 300	35	40.0 cu. in.	4	electric	yes	141 lbs.	yes	$465.00
	Merc 400	45	44.0 cu. in.	4	manual & electric	yes	125 lbs. 143 lbs.	yes	$560.00
	Merc 600	60	66.0 cu. in.	6	manual & electric	yes	167 lbs. 185 lbs.	yes	$720.00
	Merc 700	70	66.0 cu. in.	6	electric	yes	190 lbs.	yes	$870.00
	Merc 800	80	76.0 cu. in.	6	electric	yes	195 lbs.	yes	—
Montgomery Ward & Co.	Sea King	3	5.32 cu. in.	1	manual	—	32 lbs.	—	$122.00
618 W. Chicago Ave.	Sea King	5	8.84 cu. in.	2	manual	—	51 lbs.	—	—
Chicago, Ill.	Sea King	12	17.89 cu. in.	2	electric	—	86½ lbs.	—	—
	Sea King	25	35.7 cu. in.	2	manual & electric	—	130 lbs.	—	—
	Sea King	35	40.7 cu. in.	2	manual & electric	—	134 lbs.	—	—
	Sea King	60	—	4	electric	—	—	—	$810.00
Oliver Outboard Motors	Oliver 6	6	9.42 cu. in.	2	manual	—	56 lbs.	yes	—
Battle Creek, Mich.	Oliver 16	16	19.94 cu. in.	2	manual & electric	yes	77 lbs.	yes	—
	Oliver 35	35	42.35 cu. in.	2	electric	yes	129 lbs.	yes	—
Robertson-Hedges, Inc.	Airplane-type air drive prop outboard								
1518 McGee St.	Model 81								
Kansas City 8, Mo.	Dragonfly	5	—	—	—	—	50 lbs.	—	$249.50
	Model 80 Dragonfly	4	—	—	—	—	58 lbs.	—	$229.50
	Model 47 Dragonfly	2	—	—	—	—	41 lbs.	—	$189.50
Sears, Roebuck & Co.	571.58241	2	3.76 cu. in.	1	manual	—	28 lbs.	—	$105.00
925 S. Homan Ave.	574.60000	3.6	6.23 cu. in.	2	manual	—	36 lbs.	—	$119.00
Chicago 7, Ill.	574.60070	7.5	10.0 cu. in.	2	manual	—	34 lbs.	—	$229.00
	574.60120	12	16.4 cu. in.	2	manual	—	70 lbs.	—	$289.00
	574.60290	25	29.97 cu. in.	2	manual	—	106 lbs.	—	$399.00
	574.60300	25	29.97 cu. in.	2	electric	yes	118 lbs.	—	$480.00
	574.60440	40	42.18 cu. in.	2	manual	—	130 lbs.	—	$490.00
	574.60460	40	42.18 cu. in.	2	electric	yes	141 lbs.	—	$580.00
	574.60620	60	63.27 cu. in.	3	electric	yes	170 lbs.	—	$799.00
H. A. Valente S.R.L.	Yumpa 5	5	7.93 cu. in.	1	manual	—	—	—	$135.00
Buenos Aires, Argentina									
West Bend Aluminum Co.	Shrimp	2	3.76 cu. in.	1	manual	—	28 lbs.	yes	—
Hartford, Wis.	80 Series	8	11.97 cu. in	2	manual	—	57 lbs.	yes	—
	120 Series	12	17.72 cu. in.	2	manual	—	59 lbs.	yes	—
	180 Series	18	19.96 cu. in.	2	manual	—	64 lbs.	yes	—
	400 Series	40	42.18 cu. in.	2	manual	—	114 lbs.	yes	—
	Golden Shark	40	42.18 cu. in.	2	electric	yes	137 lbs.	yes	—
Western Auto Supply Co.	Wizard 3.6	3.6	6.25 cu. in.	1	manual	—	36 lbs.	—	$125.95
2107 Grand Ave.	Wizard 7½	7.5	10.00 cu. in.	2	manual	—	40 lbs.	—	$234.95
Kansas City 8, Mo.	Wizard 12	12	16.4 cu. in.	2	manual	—	70 lbs.	—	$289.95
	Wizard 25	25	29.97 cu. in.	2	manual	—	106 lbs.	—	—
		25	29.97 cu. in.	2	electric	yes	118 lbs.	yes	$489.95
	Wizard 40	40	42.18 cu. in.	2	manual	—	131 lbs.	yes	—
		40	42.18 cu. in.	2	electric	yes	146 lbs.	yes	$579.95
	Wizard 60	60	63.27 cu. in.	3	electric	yes	170 lbs.	yes	$819.95
Zundapp-Werke GMBH	Zundapp								
Munich 8, Germany	Delphin	2.3	—	—	manual	—	29 lbs.	—	—

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AIRBOATS, INC.
3323 N. FLORISSANT AVE.,
ST. LOUIS 7, MO.

AIRBOY ENGINES

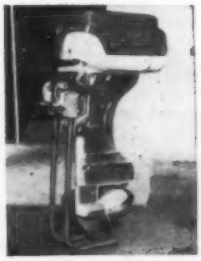
New features on 1959 Airboy 5-HP model 50 outboard air-drive engine is a heavy duty crankshaft. In static thrust tests the new 5-HP engine produced 40% more thrust than the 4 HP Model 40 Airboy which has been discontinued in 1959. Part of this power boost is due to the four blade twin turbo thrust propeller on the 5-HP motor. Propeller diameter measurement remains 26" overall; and other features retained from last year's model are the twist grip throttle assembly, transom bracket with angle adjustment to fit the Airboy to any transom, rubber motor mounts and reverse by means of 360 degree steering range. Price, $239. 2-HP model, $179.50.

●

AMERICAN MARC INC.
MARINE DIV.
1601 W. FLORENCE AVE.
INGLEWOOD, CALIF.

DIESEL OUTBOARD

American Marc is offering 3 models, which are said to be the first diesel outboard engines ever produced. Three models are 7½, 15 and 22 HP. They are one cylinder, two piston opposed, water or air cooled.



BRITISH SEAGULL CO., LTD.
POOLE, DORSET, ENGLAND

SEAGULL "CENTURY PLUS" MODEL

Single cylinder, 3 port, 2-stroke, water cooled outboard motor which develops 5 HP at 3500 rpm. Reduction gear ratio, 12/48. Weight, 37 lbs. Price delivered east coast, $190; long shaft model, $195. Other models from 1½ HP, $130.

EVINRUDE MOTORS
MILWAUKEE 16, WIS.

LIGHTWIN

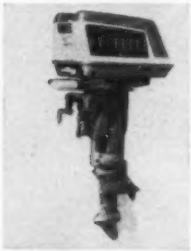
3-HP at 4000 rpm for speeds from slow troll to 8½ mph in stock boats with average loads. A 2-cycle, alternate firing, twin cylinder, water-cooled model with piston displacement of 5.28 cu. in. Carburetion is automotive type with separate high and low speed adjustments. Rope starting, manually controlled motor with 360-degree pivot steering. 6⅛"x6¼", 2-blade weedless propeller protected by "Safti-Grip" clutch. Weight, 33 lbs. Price, $160 (15" transom height model). Long shaft model available at extra cost.

FISHERMAN

5½ HP at 4000 rpm for speeds from slow troll to over 12 mph in stock boats with average loads. A 2-cycle, alternate firing, twin cylinder, water-cooled model with 8.84 cu. in. displacement. Carburetion is automotive type with separate high and low speed adjustments. Rope starting, "Roto-Matic" control fitted for remote controlled operation. 8"x7¼" 2-blade semi-weedless propeller protected by "Safti-Grip" clutch. Weight, 55.5 lbs. Price, $235 (15" transom height model). Long shaft model available at extra cost.

SPORTWIN

10 HP at 4500 rpm for speeds from slow troll to over 20 mph in stock boats with average loads. A 2-cycle, alternate firing, twin cylinder, water-cooled model with 16.6 cu. in. displacement. Carburetion is automotive type with separate high and low speed adjustments. Rope starting, "Roto-Matic" control fitted for remote controlled operation. 8¼"x8½" 3-blade propeller protected by "Safti-Grip" clutch. Weight, 67 lbs. Price, $325 (15" transom height model). Long shaft model available at extra cost.



FASTWIN

18 HP at 4500 rpm for speeds from slow troll to over 27 mph in stock boats with average loads. A 2-cycle, alternate firing, twin cylinder, water-cooled model with 22.0 cu. in. displacement. Carburetion is automotive type with separate high and low speed adjustments. Rope starting, "Roto-Matic" control fitted for remote controlled operation. 9¼" x11" 3-blade propeller protected by "Safti-Grip" clutch. Weight, 79 lb. Price, $395 (15" transom height model. Long shaft model available at extra cost.

BIG TWIN

40 HP at 4500 rpm for speeds from slow troll to over 33 mph in stock boats with average loads. A 2-cycle, alternate firing, twin cylinder, water-cooled model with 43.89 cu. in. displacement. Carburetion is automotive type with separate high and low speed adjustments. Rope starting, "Roto-

Why this lever and this cable give you the finest outboard control that money can buy

Whether you are shopping for your first outboard control, or replacing a sluggish control . . . it will pay you to read these facts.

The response, safety, ease of operation . . . the pleasure . . . that you get from an outboard control depend primarily on two things: the simplicity of lever operation and the reliability of the control cable.

Take the lever. Most of today's controls are now single-lever and the "Helmsman®", which we want to talk about, is the height of streamlined, efficient single-lever design. You push the "Helmsman" lever forward to go forward; pull back to reverse; and lift up in neutral to "rev." All in one smooth sweep of motion, with one hand. It's as easy and natural as that! There are no buttons or gadgets to press. There is no throttle creep in any position.

Easier operation, of course, means safer outboarding. Since you can command your "Helmsman" confidently, without fumbling, you can keep your eyes on your course . . . where they should be!

Now, take the cable. Obviously an outboard control is only as good as the cable which "bosses" the motor. The "Helmsman" is equipped with the finest, most responsive remote control cable in the world . . . literally! TELEFLEX® cable. There is no other like it. Its nerve-like sensitivity has made TELEFLEX cable the first choice wherever critical remote control systems are needed . . . in missiles, aircraft, submarines, nuclear reactors. It has been used for Chris Craft control systems for years. It is the *guarantee* you receive in the "Helmsman" Single-Lever of sure trigger-quick response, extra boating pleasure and safety.

See the "Helmsman" Single-Lever Control at your marine dealer's. If he does not have it as yet, send us his name and we will ship via the dealer. The "Helmsman" Single-Lever is unconditionally guaranteed. You just can't buy a substitute for more—or less.

TELEFLEX®
HELMSMAN®
CONTROLS
TELEFLEX Incorporated, North Wales, Pa.

USED BY THOUSANDS OF BOAT OWNERS

Approved by F.C.C.

Dynaplate®

Grounding Unit for Radiotelephones

How Dynaplate works: Microscopic bronze spheres fused in a method to permit water to contact area of each sphere . . . achieves fantastic surface-to-water areas.

Pat. No. 2,909,589

Standard Dynaplate	(Size 6" x 2" x 1/2") (Equivalent: Over 12 sq. ft.)	14.75
Model D-8 Dynaplate	(Size 8" x 2 1/2" x 1/2") (Equivalent: Over 20 sq. ft.)	24.95
Giant Dynaplate	(Size 12" x 3" x 1/2") (Equivalent: Over 40 sq. ft.)	49.50
Transom Type Dynaplate	(Plate 6"x2"x1/2") (plus chrome plated transom fixture) (For boats having dead air cell in bottom) Install on transom. (Equivalent: Over 12 sq. ft.)	19.75

ON SALE AT YOUR MARINE STORE

AQUADYNAMICS INC. 6940 Farmdale Ave., No. Hollywood, Calif.

INLAND WATERWAY GUIDE

EVERYTHING YOU'LL WANT TO KNOW

Illustrated! Features! Cruising Tips! Where to stop . . . Where to shop . . . Where to fuel . . . Where to get repairs . . . What to see and do.

Up-to-date. Completely revised each edition. Each edition includes a list of in-and-out facilities for outboarders.

$1.50 per edition. On sale at marine dealers, marinas, bookstores. Most U.S. Coast & Geodetic Chart Agents. Or postpaid from the publishers.

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Complete yachting facilities from Norfolk via the Intracoastal through Florida to New Orleans. 264 pages.

1960 NORTHERN EDITION

Complete information on protected water cruising from Boothbay Harbor to Hampton and Richmond, Va. 276 pages.

1960 Brand New! GREAT LAKES EDITION

Covers yachting facilities from New York via Hudson and connecting waterways to Montreal and Port Huron, including both shores Lakes Erie and Ontario.

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Your name or name of boat in gold $1
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INLAND WATERWAY GUIDE

25P W. Broward Blvd. Fort Lauderdale, Fla.

THE SAFEST WAY TO MOOR YOUR BOAT

Forget about storms, wind and rough water

You haven't a worry when your boat is high and dry on an

R&G BOAT LIFT

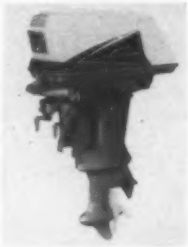
Keeps new boats new-looking. Gives older boats longer life. Models for Outboards and Inboards. Shipped K.D. Easy to erect. Low cost.

Write for R&G Marine Products Catalog.

REIMANN AND GEORGER INC.
1835 Harlem Road Buffalo 12, N. Y.

BEACHER Marine Railway

Matic" control fitted for remote control operation. 10⅜"x 14" 3-blade propeller protected by "Safti-Grip" clutch. Weight, 129 lbs. Price, $525 (15" transom height model). Long shaft model available at extra cost.



LARK II

40 HP at 4500 rpm for speeds from slow troll to over 33 mph in stock boats with average loads. A 2-cycle, alternate firing twin cylinder, water-cooled model with 43.89 cu. in. displacement. Carburetion is automotive type with separate high and low speed adjustments. 12-volt electric starting, anti-friction steering, fitted for full remote control operation. 10⅜"x14" 3-blade propeller protected by "Safti-Grip" clutch. Weight, 139 lbs. Price, $640 (15" transom height model). Long shaft model available at extra cost.

STARFLITE II

75 HP at 4500 rpm for speeds from slow troll to over 40 mph in stock boats with average loads. A 2-cycle, 90° firing V-4, water-cooled model with 89.46 cu. in. displacement. Carburetion is twin-barrel, downdraft automotive-type with single synchronized high speed adjustment. 12-volt electric starting with key-turn and ignition lock; standby manual starting. Anti-friction steering fitted for full remote operation. 10"x11" 3-blade propeller protected by "Safti-Grip" clutch. Weight, 216 lbs. Price, $895 (20" transom height model). Short shaft available at no extra cost.

FIRESTONE TIRE & RUBBER CO.
AKRON 17, OHIO

FEATHERWEIGHT 2

Weight 28 lbs. Tucks easily into trunk of car. Air-cooled, unaffected by sandy, silty water or freezing temperatures. Safe enough for youngsters to operate. Ideal for duck boats, skiffs, or canoes. Runs 2 hours on one 5-pint tankful of fuel. Speeds to 7 mph. Full 360 degrees pivot steering for forward or reverse. Has rewind starter and lever-type speed control. Price, $125.

VISCOUNT 8

8 HP outboard weighs 57 lbs. Perfect take-along motor. Trolls smoothly at less than one mile per hour. Low-level gear-reduction starter for easy starts. Full gearshift, forward, neutral, reverse. Speed selector is integral with steering handle. Propeller has rubber cushioned hub and shear pin. Positive lock holds engine out of water when desired. Price, $275.

VISCOUNT 12

12 HP gives speeds to 22 mph. Throttles to less than one mph. Weight 59 lbs. Low-level rewind starter prevents engine tilting. Six-to-one gear reduction cuts starting effort. Full gearshift for easy maneuvering. Vacuum type fuel system with 4¼ gal. remote fuel tank. Fiberglass cover and neoprene rubber cushion mountings. Price, $315.

VISCOUNT 40

Most powerful model in Firestone line, this deluxe 40 HP outboard is ideal for cruising, skiing and all water sports.

42.18 cu. in. displacement gives fast acceleration to speeds over 40 mph. Electric start (12 volt) and 5 ampere alternator generator are factory installed as standard equipment. Viscount Drive control (extra) gives complete command of engine with single lever. Ignition key starts, stops, electrically chokes and provides locking of engine. Dual fuel pumps give double dependability. Direct battery ignition with coil, condenser, breaker points and spark plug for each cylinder. Fiberglass cover and neoprene rubber cushion mountings. Price, $625.

●

GALE PRODUCTS
GALESBURG, ILL.

BUCCANEER 3 HP DELUXE

Weight: 29 lbs. Ignition: Moisture-proof coils and condensers. 360° pivot. Propeller protection: Rubber clutch in propeller. Controls: Single lever synchronized spark and throttle. Gas tank capacity:

0.5 gal. Vibration insulation: Mounted in rubber. Starting method: Automatic rewind—nylon rope. Safety features: Automatic lock when in reverse prevents tilting. Price, $145.

BUCCANEER 5 HP DELUXE

Weight: 55 lbs. (less tank). Ignition: Coils and condensers are moisture-proof. Forward-neutral-reverse gearshift (adaptable to remote control). Spring overload clutch in gearcase—no shear pin necessary—fishline cutter on propeller. Synchronized spark and throttle on one twist grip control for speed and steering (adaptable to remote control). Fuel system: 6 gal. separate tank (extra tanks optional). Carburetor intake silencer and exhaust silencing, spring mounted. Starting method: Automatic rewind nylon rope. Automatic lock when in reverse prevents tilting. Price, $230.00.

BUCCANEER 15 HP DELUXE

Motor type: 2-cylinder, 2-cycle. Displacement: 19.94 cu. in. Ignition: moisture-proof coils and condensers, rubber shrouded plugs. Starting: automatic rewind nylon rope. Gearshift: 3-position—forward, neutral, reverse. Shroud: snap-on one-piece fiberglass. Propeller protection: rubber slip clutch. Twist grip controls on steering handle (adaptable to remote controls). Positive idle speed adjustment, prevents stalling. Shroud-sealed, rubber cushioned powerhead mounting, exhaust muffler. Safety features: operating tilt lock and release, prevents tilting during deceleration, releases upon striking underwater object. Fuel capacity: 6-gal. remote tank. Weight: 77 lbs. Price, $350.00

BUCCANEER 25 HP ELECTRIC

Weight: 127 lbs. less tank. Manual start: 115 lbs. less tank. Ignition: Coils and condensers are moisture-proof. Forward, neutral, reverse gear shift (adaptable to remote controls). Rubber slip clutch in propeller, fish line cutter on propeller. Synchronized spark and throttle on one twist grip control. Electric model, (adaptable to remote control for speed and steering). Gas tank capacity: 6 gal. (separate tank). Extra tanks optional. Exhaust muffler, carburetor intake silencer. Power unit completely enclosed. Electric starting 12 volt system and/or automatic rewind with nylon rope. Safety features: Operating lock and release prevents motor tilting when decelerating, releases when it

6 NEW PRODUCTS FOR '60

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EPOXYDUR CEMENT—A new Epoxy Resin multi-purpose surfacing compound that combines the amazing Epoxy properties of extraordinary adhesion, extreme hardness and exceptional durability. Epoxydur Cement can be used to fill surface dents and gouges; it can be used for re-surfacing; and it can be used as an adhesive to bond two surfaces.

REGATTA POLYTHANE VARNISH—A new clear coating that will not discolor; it dries to hardness and abrasion-resistant resilience that greatly exceed ordinary varnishes.

REGATTA QUICK-DRYING SUPER SPAR VARNISH—A new faster-drying formulation of the famous Regatta Spar Varnish. Both POLYTHANE and SUPER SPAR set dust-free within an hour and dry fast enough to permit application of two coats in a single day.

REGATTA SPRAY ENAMEL—A new nine-color line of enamels designed for marine use; packaged in 16-oz. aerosol spray containers.

REGATTA SEA MIST—A new and unique triple-purpose product: SEA MIST acts an an air freshener, a mildew inhibitor and a germicide. Keeps cabin fresh when closed for long periods. SEA MIST is packaged in an unbreakable, easy-to-use plastic squeeze bottle.

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hits underwater object. Price, manual start, $465.00; electric, $560.00.

BUCCANEER 35 HP

Weight: 128 lbs. (less tank). Ignition: Coils and condensers are moisture-proof. Forward, neutral, reverse gear shift (adaptable to remote controls). Rubber slip clutch in propeller, fish line cutter on propeller. Synchronized spark and throttle on one twist grip control (adaptable to remote control for speed and steering). Gas tank capacity: 6 gallons (separate tank). Extra tanks optional. Silencing: Exhaust muffler, carburetor intake silencer. Power limit unit completely enclosed. Automatic rewind, nylon rope starting. Operating lock and release prevents motor from tilting when decelerating, releases when it hits underwater objects, starter limit lock prevents starting above idling speed. Price, $500.00 F.O.B. Galesburg, Illinois.

GALE SOVEREIGN 35 HP ELECTRIC

Weight: 133 lbs. less tank. Ignition: Coils and condensers are moisture proof. Forward, neutral, reverse gear shift (adaptable to remote controls). Rubber slip clutch in propeller, fish line cutter on propeller. Synchronized spark and throttle (adaptable to remote control). Gas tank capacity: 6 gallons (separate tank). Extra tanks optional. Silencing: Exhaust muffler, carburetor intake silencer. Power unit completely enclosed. Rubber mounted. Electric starting 12 volt system and automatic rewind with nylon rope. Operating lock and release prevents motor from tilting when decelerating, releases when it hits underwater objects; starter limit lock prevents starting above idling speed, Mercury switch prevents starting above idling speed. Price, $605.00; with generator, $674.50.

GALE V-SOVEREIGN 60 HP ELECTRIC

V-block, 4-cylinder, 2-cycle 70.7 cu. in. displacement. 12-volt electric system, moisture-proof coils and condensers, rubber shrouded plugs. Key switch (automatic rewind auxiliary starter). Gearshift adaptable to remote controls. Shroud is snap on one piece fiberglass. Concealed controls. Rubber slip clutch. Positive

idle speed adjustment prevents stalling. Shroud-sealed rubber mounted floating powerhead, exhaust muffler. Thermostat controlled cooling system. Combination super-secure tilt and trail lock, operating tilt lock and release, prevents tilting during deceleration, releases upon striking underwater object. Safety start Micro switch. Slimline torpedo lower unit. Twin-barrel, down draft carburetor. Fuel capacity: 6 gal. remote tank. Weight 205 lbs. Price, $865.00; with generator $934.50; manual start $770.00.

●

GAMBLE-SKOGMO, INC.
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3.6 HIAWATHA

Ideal for fishing, the 3.6 hp Hiawatha trolls all day without adjustment and weighs only 36 lbs. Speeds up to 8 mph. All aluminum die-cast construction, with rewind starter. Price, $114.95.

7.5 HIAWATHA

This 7.5 hp outboard engine is completely new and is only 30" in size. Weighs 34 lbs. Features new weedless propeller, remote fuel system and siphomatic bailer. Twist grip throttle and steering. Price, $219.50.

12 HIAWATHA

Operates quietly with new rubber mount suspension. Easy to use twist grip throttle for speeds up to 28 mph. Siphomatic bailer removes up to 300 gal. per hour. Other features include full forward and reverse

gears, non-pressure remote fuel tank and sound deadening fiber glass hood. Adaptable for remote controls. Price, $289.50.

25 HIAWATHA

Weight of 107 lbs. and offset lower unit make this motor an easy handling engine on any hull. New battery ignition for easier starting. Also available in manual start and electric start with long shaft. Designed for remote control operation, stern steering handle available. Price, $479.50.

40 HIAWATHA

Twin cylinders deliver full 40 hp certified at 4800 rpm. Improved fixed jet carburetors take guess work out of fuel mixture control and are more economical. Submerged water pump adds extra dependability to cooling in salt or fresh water. 12 volt electric starting equipment with remote push button starter and built-in generator are included. Price, $569.50.

60 HIAWATHA

Three high speed fixed jet carburetors simplify fuel mixture control and give greater economy without sacrificing power. A new flywheel alternator 12 volt generator cuts down on engine weight and increases amperage by 8 amps over last year's model. Hiawatha dash panel with turn key start and choke button are standard. Temperature and generator warning lights. Either single or dual remote controls available. Price, $799.50.

●

GOODYEAR TIRE & RUBBER CO.
AKRON 16, OHIO

SEA BEE

Sea Bee outboard motors include 3, 5, 12, 35 HP manual and the 35 HP electric. Weight range is 32 lbs. to 137 lbs. A motor for every need.

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GRADE ENGINEERING
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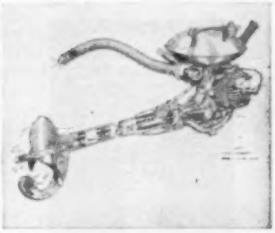

ZUNDAPP DELPHIN

Horizontal shaft and pressurized air-water spray cooling system are features of the Zundapp Delphin outboard engine, manufactured by Zundapp-Werke GMBH, Munich 8, Germany. A flow of exhaust gases in shaft casing accelerates and warms up the cooling water for operating efficiency. A universal mounting bracket permits location on many different type boats.

●

JOHNSON MOTORS
WAUKEGAN, ILL.

SEA HORSE 3

Manual starting two-cylinder motor develops 3 HP at 4000 rpm. Has integral fuel tank, full-pivot reverse. Operation is manual with single throttle lever on engine. Available with standard 15" or 20" shafts. Weight, 33¼ lbs. Lower unit is designed to ride over underwater obstructions and through weeds. Price, $160.

SEA HORSE 5½

Manual starting two-cylinder

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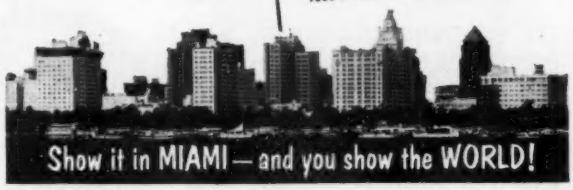
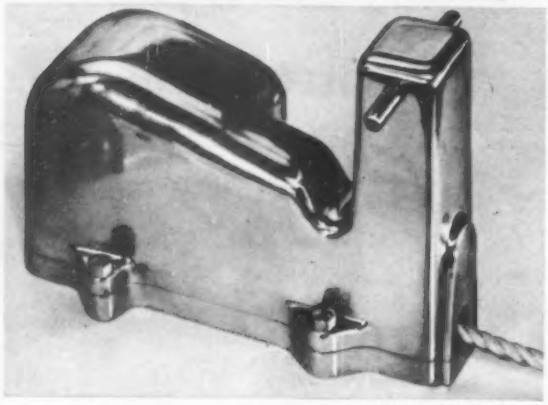


End "MAN OVERBOARD" Danger



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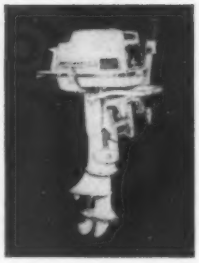


motor develops 5½ HP at 4000 rpm. Has separate 6 gallon fuel tank for 6 hours running; gearshift, forward, neutral, reverse. Manual or remote speed control. In 15″ and 20″ shafts. Weight 55½ lbs. 2-blade aluminum, brass-bushed, weedless propeller. Slip clutch. Special features: new thermostat control of water temperatures in cooling system; fiberglass hood. Price, $235.

SEA HORSE 10

Manual starting two-cylinder motor develops 10 HP at 4500 rpm. Gearshift, forward, neutral, reverse drive; manual or remote speed control. In standard 15″ or 20″ long shaft. Weight, 67 lbs. 3-blade rubber floated aluminum propeller and slip clutch. "Suspension Drive" system, intake silencer, rubber suspended cover, under-water exhaust relief silencer. Special features: new thermostat to control water temperature in cooling system; push-button stop switch; fuel pump; fiberglass hood. Price, $325.

SEA HORSE 18

Manual starting two-cylinder motor develops 18 HP at 4500 rpm. Has full forward, reverse and neutral gearshift. Set up for remote or manual controls. Weight, 77 lbs.; with 20″ shaft, 78½ lbs. Has thermostat to maintain proper water temperature in cooling system; push button type stop switch. Price, $395.

SUPER SEA HORSE 40

Electric starting two-cylinder motor develops 40 HP at 4500 rpm. Has forward, neutral, reverse gearshift. Set up for remote operation, but has emergency throttle at powerhead. Weight, 139 lbs; with 20″ shaft, 141 lbs. Has thermostatically controlled recirculating cooling system. Special features: tilt locks for trailering; key switch starting; compression relief system for easier emergency manual starting; automatic choke. Price, $640. Manual start model available at $525.

SUPER SEA HORSE V-75

Electric starting V-4 motor develops 75 HP at 4500 rpm. Has full gearshift for forward, neutral, reverse; remote operation with emergency throttle. Weight, 216 lbs. Has thermostatically controlled recirculating cooling system; on-off key switch starting; twin-barrel downdraft carburetor; shock absorbers. Generator is sold as accessory. Price, $895. Available in manual start model.

●

KIEKHAEFER CORP.
MERCURY OUTBOARD MOTORS
FOND DU LAC, WIS.

MERC 60

6 HP for speeds to 20 mph. 2-cylinder alternate-firing model with 7.2 cu. in. displacement. Weatherproof flywheel magneto ignition system, with one Tillotson std. jet carburetor. Multiple disc propeller clutch, push button shift, manual automatic rewind. Weight 46 lb.

MERC 100

10 HP for speeds to 26 mph. 2-cylinder alternate-firing model with 18.5 cu. in. displacement. Weatherproof flywheel magneto ignition system, with one Tillotson std. jet carburetor. "Flo-Torq" propeller clutch, automatic

transmission, manual automatic rewind. Weight 77 lb. Price, $320.

MERC 150

15 HP for speeds to 29 mph. 2-cylinder alternate-firing model with 18.5 cu. in. displacement. Weatherproof flywheel magneto ignition system, with one Tillotson std. jet carburetor. "Flo-Torq" propeller clutch, automatic transmission, manual automatic rewind. Weight 83 lb. Price, $355.

MERC 200

22 HP for speeds to 34 mph. 2-cylinder alternate-firing model with 22 cu. in. displacement. Weatherproof aircraft-type magneto ignition system, with 2 Tillotson std. jet carburetors. "Flo-Torq" propeller clutch, automatic transmission, manual automatic rewind. Weight 88 lb. Price, $420.

MERC 300

35 HP for speeds to 40 mph. 4-cylinder alternate-firing model with 40 cu. in. displacement. Weatherproof aircraft-type magneto ignition system, with 2 Tillotson std. jet carburetors. "Flo-Torq" propeller clutch, lower unit shift, electric plus manual automatic rewind. Weight 141 lb. (electric). Price, $465.

MERC 400

45 HP for speeds to 42 mph. 4-cylinder alternate-firing model with 44 cu. in. displacement. Weatherproof aircraft-type magneto ignition system,

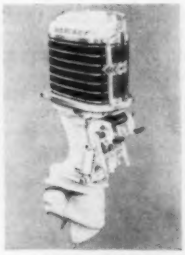
with 2 Tillotson fixed jet carburetors. "Flo-Torq" propeller clutch, lower unit shift, electric plus manual automatic rewind starting. Weight 125 lbs. (manual); 143 lbs. (electric).

MERC 600

60 HP for speeds to 48 mph. 6-cylinder alternate-firing model with 66 cu. in. displacement. Battery-type automotive ignition system, with 3 Tillotson std. jet carburetors. "Flo-Torq" propeller clutch, direct reversing shift, electric plus manual automatic rewind starting, weight 185 lbs. (electric); 167 lbs. (manual). Price, $720.

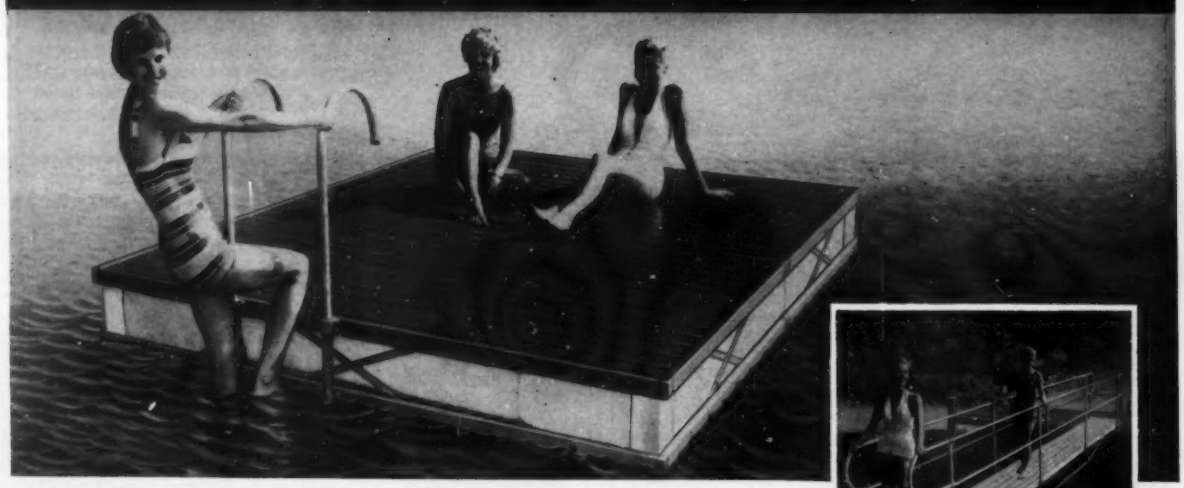
MERC 700

70 HP for speeds to 50 mph. 6-cylinder alternate-firing model with 66 cu. in. displacement. Battery-type automotive ignition system, with 3 Tillotson fixed jet carburetors. "Flo-Torq" propeller clutch, direct reversing shift, electric plus manual automatic rewind starting. Weight 190 lbs. (electric). Price, $870.



MERC 800

ALCOA ALUMINUM MEANS STYLE, STRENGTH AND DURABILITY FOR NEW ALUMIDOCK WATERFRONT EQUIPMENT



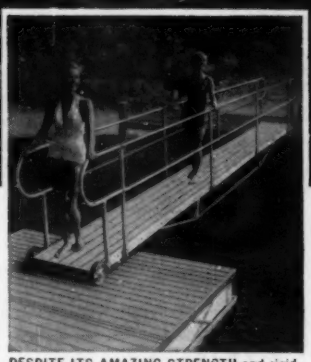
WITH THE NEW ALUMIFLOAT, the problem of moving a heavy swimming raft from place to place is eliminated . . . each 5' x 8' section weighs only 158 lb, yet can take loads in excess of 1,600 lb.

This new line of waterfront equipment, made of lightweight, corrosion-resistant Alcoa® Aluminum by Alumidock, division of Metallic Ladder Manufacturing Corp., will add new style to any waterfront home, dock or marina. Because it is Alcoa Aluminum, it also gives strength for fun and safety, plus long years of maintenance-free operation.

For complete information, write Docks, 1615-B Alcoa Building, Pittsburgh 19, Pa.

Aluminum Company of America, Alcoa Building, Pittsburgh 19, Pa.

ALCOA ALUMINUM



DESPITE ITS AMAZING STRENGTH and rigidity, the Alumiramp is light enough to be carried by two people. Available in various sizes, the ramp, like all Alumidock equipment, uses corrosion-resistant Alcoa alloys to permit Care-free seacoast installations.

80 HP for speeds to 55 mph. 6-cylinder alternate-firing model with 76 cu. in. displacement. Battery-type automotive ignition system. "Flo-Torq" propeller clutch, direct reversing shift, electric plus manual automatic rewind starting. Weight 195 lbs. (Elec.)

●

McCULLOCH CORP.
MARINE PRODUCTS DIV.
2901 EAST HENNEPIN AVE.
MINNEAPOLIS 13, MINN.

3.6 HP SCOTT

3.6 HP at 4000 rpm. 1-cylinder model with 2⅛"x1¾" bore and stroke; 6.23 cu. in. piston displacement. Manual drop pawl starting. Weight 36 lbs. No gear shift, no power-bailing, as in all other Scott outboard models. Speeds up to 12 mph. Price, $135.65.

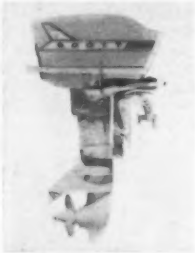
7.5 HP SCOTT

7½ HP at 4200 rpm. 2-cylinder model with 1 15/16"x1.7" bore

and stroke; 10.0 cu. in. piston displacement; 17/25 gear ratio. Manual drop pawl starting. Weight, 34 lbs. Forward, neutral, reverse gear shift. Speeds up to 20 mph. Bail-A-Matic power bailing. Muffler with idle relief and air intake silencer. Price, $253.45.

12 HP SCOTT

12 HP at 4800 rpm. 2-cylinder model with 2¼"x2-1/16" bore and stroke; 16.4 cu. in. piston displacement; 13/21 gear ratio. Manual drop pawl starting. Weight 70 lbs. Forward, neutral and reverse gear shift. Speeds up to 28 mph. Bail-A-Matic power bailing. Muffler with idle relief and air intake silencer. Price, $325.75.



25 HP SCOTT

25 HP at 4800 rpm. 2-cylinder model with 2-51/64"x2-7/16" bore and stroke; 29.97 cu. in. piston displacement; 15/23 gear ratio. Turn key and choke button starter on electric model; drop pawl with stop model. Weights, 118 lbs. and 106 lbs. respectively. Forward, neutral and reverse gear shift. Speeds to 35 mph. Bail-A-Matic power bailing. Muffler with idle relief and air intake sound baffle. Price (electric) $537.60; (manual starting) $456.80.

40 HP SCOTT

40 HP at 4800 rpm. 2-cylinder model with 3⅛"x2¾" bore and stroke; 42.18 cu. in. piston displacement; 14/23 gear ratio. Remote key starter with choke installation in electric model; drop pawl with stop button

in manual starting model. Weight 141 lbs. and 130 lbs. respectively. Forward, neutral and reverse gear shift and speeds to 44 mph. Bail-A-Matic power bailing. Muffler with idle relief and air intake sound baffle. Price, $659.40 (electric); $559.25 (manual).

ROYAL SCOTT 40

40 HP at 4800 rpm. 2-cylinder model with 3⅛"x2¾" bore and stroke; 42.18 cu. in. piston displacement; 14/23 gear ratio. Remote key starter with choke installation. Forward, neutral and reverse gear shift. Speeds

NOW... get EVERYTHING you've wanted in a trailer

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STANDARD EQUIPMENT ON ALL TRAILERS INCLUDES: 12-inch diameter wheels on models SC-4 through SC-7. Transom rollers or padded cradles optional. Completely adjustable supports for all type hulls.

ATTENTION! BOAT OWNERS • DEALERS • DISTRIBUTORS get the complete SEA-CAL story - write Dept. A

CALCINATOR CORPORATION
28th & WATER STREETS • BAY CITY, MICHIGAN

Model SC-4 illustrated; for outboards to 16 feet and 900 lbs. Other models for outboards 14 to 20 ft. with load capacities to 2400 lbs.

THE SEVEN SEAS WRISTWATCH

Tells time in bells, hours, watches, and 24-hour Continental System. Dependable movement in shock-resistant chromium plated case.

Wristwatch (tax incl.) . . $9.90
Pocketwatch (tax incl.) . . 4.60

Write Dept. PB for Marine Brochure

Our 128th Year

James BLISS & CO., INC.
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BOSTON 10, MASS.
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SWIFTWATER . . . The finest fiberglass boats

BEAUTY
PERFORMANCE
SAFETY

DINGYS
CARTOPPERS
CANOES
ROWBOATS
RUNABOUTS
18' OFFSHORE

all from one source

DEALER INQUIRIES INVITED, WRITE
SWIFTWATER INDUSTRIES, INC.
872 E. Washington St. Chagrin Falls, O.
PHONE: KI 3-5811

to 44 mph. Weight 141 lbs. Bail-A-Matic power bailing. Muffler with idle relief and air intake sound baffle. Price, $710.90.

FLYING SCOTT 60
60 HP at 4800 rpm. 3-cylinder model with 3⅛"x2¾" bore and stroke; 63.27 cu. in. piston displacement; 16/25 gear ratio. Remote ignition key starting; forward, neutral and reverse gearshift. Speeds to 50 mph. Weight 170 lbs. Bail-A-Matic power bailing. Muffler with idle relief and air intake sound baffle. Price, $906.25.

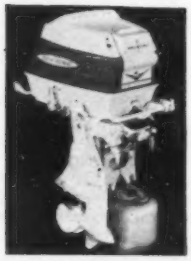
●

MINN-KOTA MFG. CO.
201 17th ST. N.
MOORHEAD, MINN.

MODEL CD-60 TROLLER
Model CD is regular cable drive troller with improved Tiller controlled Speed Switch and nylon propeller. Three-speed motor equipped with grease-sealed bearings and cable drive with stainless steel propeller shaft which runs in oilless bearings. Price, $74.50. Other models available.

●

MONTGOMERY WARD & CO.
618 W. CHICAGO AVE.
CHICAGO 7, ILL.



SEA KING MOTOR FLEET
Sea King line for 1960 has been completely restyled and engineered. Introduces new V-4, 60 HP in a 9-model line ranging from 3 to 60 HP. Features slip-clutch props, underwater exhaust, fiberglass covers and 6-gal. remote fuel systems (except 3 HP model). Priced from $122 for the 3 HP to $810 for the electrical starting V-4, 60 HP. All prices F.O.B. Chicago.

●

OLIVER OUTBOARD MOTORS
BATTLE CREEK, MICH.

OLIVER 6
6 HP at 4500 rpm. Wt., 56 lbs. Stern Ht., 16". Manual starting with self-rewinding cord. Tilt adjustment 2-blade propeller. Bore and stroke—2x1½. Piston Disp.—9.42 cu. in. Synchronized twist grip speed control. Fuel tank is Tend-A-Matic 3 gal. Rubber mounted shroud, rubber suspension intake baffles, spiral gears, underwater exhaust. Accessories—Mix-Matic 6½ gal fuel tank, slip clutch propeller.

OLIVER 16 & 16 E
16 HP at 4500 rpm. Wt., 77 lbs. and 92 lbs. respectively. Stern Ht., 15"-17". Manual-starting with self-rewinding cord or electric 12 V heavy duty starter. Tilt adjustment. 9" diam/11" pitch 2-blade propeller. Piston displ., 19.94 cu. in. Bore and stroke 2½"x2 1/32"; Synchronized speed control with twist grip. Fuel tank is Mix-Matic 6½ gals. Rubber mounted shroud, rubber suspension, intake baffles, spiral gears, under water exhaust. Accessories—choice of dashboard-mounted push button starter and choke or key switch, remote controls, lower unit extension, power propeller selection.

OLIVER 35
35 HP at 4500 rpm. Wt., 129 lbs. Stern ht., 15"-17". Electric starting with key switch and 12 V heavy duty starter. Tilt —adjustment. 10" dia/13 pitch 3-blade propeller. Bore and stroke — 3 1/16"x2⅞"; Piston Disp.—42.35 cu. in. Remote Speed Control. Fuel tank is Mix-Matic 6½ gals. Rubber

HENRY LUHRS SEA SKIFFS

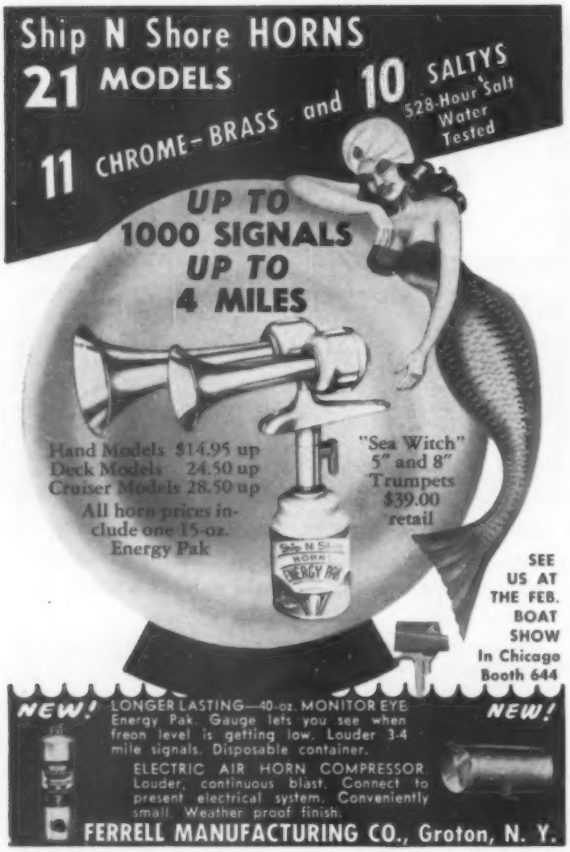
23' SHELTER MODEL $3,665 Includes 109 h.p. Gray, hydraulic controls, toilet, anchor and lines, electric bilge pump, fire extinguisher. *Also available in windshield model*, $3,320.

25' SHELTER MODEL $4,685 Includes 125 h.p. Chrysler, hydraulic controls, bunks and cushions, anchor and lines, toilet, sliding windows, upholstered pilot seat, mahogany decking, electric bilge pump. *Windshield model*, $4,300.

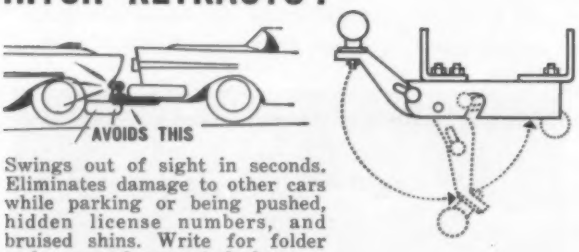
28' FLYING BRIDGE MODEL $6,090 Includes 135 h.p. Gray, hydraulic controls, bunks and cushions, pilot seat with cabinet underneath, fish well, flush cockpit, toilet. *Shelter model available*, $5,490.

HENRY LUHRS SEA SKIFFS INC.
Morgan, New Jersey PArkway 1-1083
Largest Builders of Jersey Sea Skiffs

Write us for brochure and name of nearest dealer.



BIG BOY TRAILER HITCH RETRACTS!



Swings out of sight in seconds. Eliminates damage to other cars while parking or being pushed, hidden license numbers, and bruised shins. Write for folder and name of nearest dealer.

BIG BOY PRODUCTS DIVISION
The Dalton Foundries, Inc.,
Warsaw, Indiana

Fleet and lovely for 1960

THE NEW 24 FT. LAP-STRAKE *Sea Skiff*

● Engine choices from 100 to 240 H.P. ● Speeds to 40 M.P.H. ● True round-bilge construction ● Unexcelled craftmanship ● Sleek Sport Fisherman model Inboard Sea Skiff prices start as low as $2990.

Write for new brochures on 20' and 26' models

ANA ASSOCIATED NAVAL ARCHITECTS
WEST NORFOLK, VIRGINIA

suspension, air intake cleaner, poppet valves, spiral bevel gears, rubber-mounted shroud, underwater exhaust. Accessories: remote controls, lower unit extension, power propeller selection, tiller arm with twist grip throttle control.

●

ROBERTSON-HEDGES, INC.
1518 McKEE ST.
KANSAS CITY 8, MO.

5 HP DRAGONFLY
New, lightweight 5 hp model 81 develops maximum thrust with wide 2-blade high pitch 31" propeller. Model 81 is the best performing Dragonfly for heavy loads, river current and roughest terrain afloat. Optional 170 or 360 degree steering, weight 50 lbs. Price, $249.50. Robertson-Hedges offers a 4 hp Dragonfly at $229.50 and a 2 hy at $189.50.

●

SEARS, ROEBUCK & CO.
925 S. HOMAN AVE.
CHICAGO 7, ILL.

2 HP ELGIN
The one cylinder engine develops 2 HP at 4000 rpm. The air-cooled engine pivots 360 degrees and has an integral tank, which holds 5 pints. Speeds to 7 mph. Price, $105.

3.6 HP ELGIN
An ideal second motor for fisherman. It takes little space on the transom, trolls perfectly hour after hour and is easy to start. Weighs only 36 lbs. with built-in gas tank. Appeals to young and old alike. Price, $119.

7.5 HP ELGIN
This fisherman's special weighs only 34 lbs. Height is 30" and has an OBC rating of 7.5 HP. Weedless skeg and prop permits the fisherman to fish pads, weed beds, brushy spots and rocky shorelines. Autobail is standard equipment, as is automatic rewind starter, tilt lock, and automotive type non-pressurized fuel feed system. Forward, neutral and reverse shift lever is of the non-slip, positive type. Price, $229.

12 HP ELGIN
Handles big fishing boats with ease, and throttles to a slow trolling speed. The autobail handles up to 300 gallons an hour, 5 gallons per minute. Auto type non-pressure fuel system has a 6-gallon tank and automotive fuel pump. Prop has neoprene cushioned hub which absorbs jolts. Price, $289.

25 HP ELGIN
Has power for pulling skiers and will throttle down to trolling speed. Motor has offset lower unit which counteracts prop torque, making it much easier to handle at high speeds. Dependable, safe low pressure fuel system, neoprene cushioned hubs, autobail and quiet exhaust muffler are some of the features. Electric model has battery ignition plus built-in flywheel alternator. Remote controls and key starting dash panel are available. Price of manual model, $399; electric, $480.

40 HP ELGIN
Two carburetors and double V block reed valves plus balanced manifolds contribute to rapid acceleration and extremely smooth operation. Scavenging operation eliminates smoke fumes. Autobail, automotive type fuel system, tilt lock, neoprene cushioned hub and full soundproofing are standard equipment on both electric and manual models. Price for manual model, $490; electric, $580.

60 HP ELGIN
Three cylinders with a carburetor for each cylinder, balanced tube manifold and fixed

jet carburetors. Features include neoprene cushioned hub, offset lower unit, smokeless operation, autobail battery ignition with distributor and fixed jet carburetion. New flywheel alternator has output of 18 to 20 amps. Price, $825.

●

SILVER CREEK PRECISION CORP.
SILVER CREEK, N. Y.

SILVERTROL

Electric motor operates on batteries that are now standard equipment for starting gasoline motors, weighs 24 lbs. and is made of non-corrosive materials. Motor can be mounted on any part of the boat.

●

TACKLE INDUSTRIES
2518-20 CORBITT ST.
SHREVEPORT, LA.

LEJAY ELECTROLL MOTOR

Ideal for the fisherman and is

permitted on most lakes which prohibit gasoline motors. The Lejay Electroll Motor runs several hours on a large 6 or 12 volt battery. Weighs 23 lbs. Turn control dials the desired speed. Weedless rudder and propeller assembly. Extremely quiet. Price, $89.50.

●

HORACIO A. VALENTE
LLAVALLOL 5287
BUENOS AIRES, ARGENTINA

YUMPA "5"

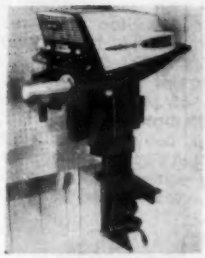
Readers in the vicinity of Latin America will be interested in a new 5 HP outboard motor which is manufactured in Argentina. The Yumpa 5 is a single cylinder, water cooled engine of 130 cm cylinder displacement, which develops 5 HP at 4000 rpm. It weighs 22 Kilos, and has a tank capacity of 4 liters. Thrust is provided by a 4 bladed prop 230 mm in diameter. All parts are interchangeable. Write for additional information. Price: $135.

●

WEST BEND ALUMINUM CO.
HARTFORD, WIS.

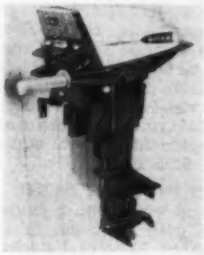
2 HP SHRIMP

2 HP at 4000 rpm, 1 cylinder model with piston displ. of 3.76 cu. in. Bore and stroke, 1¾"x1 9/16". Zerol bevel gears, 14/21 ratio. An air-cooled model with a net weight of 28 lbs., for speeds to 7 mph. Has manual rewind starter; 360-degree pivot; lever type speed control.



8 HP WEST BEND

8 HP at 4500 rpm, 2 cylinder model with piston displ. of 11.97 cu. in. Bore and stroke, 2⅛"x1-11/16". Zerol bevel gears, 14/23 ratio. Water cooled manual starting model with net weight of 57 lbs., for speeds up to 20 mph. Full gear shift, forward, neutral and reverse; "visi-twist" speed selector; silencing equipment. Not adaptable for remote controls.



12 HP WEST BEND

12 HP at 4000 rpm, 2 cylinder

EPOTEX—Elastic EPOXY for emergency or permanent repairs. Seals, Repairs, Bonds. Wood, Steel, Iron, Fiberglass, Plastics.

RUB-R-SEAM—Thiokol Base 2 Parts Mixture. For deck and hull seams above and below the Waterline. Bedding of laps in lapstrake construction.

TECSTRIP (NON-FLAMMABLE)—Kuhls Tecstrip remover is today's miracle of modern chemistry. Tecstrip removes paints, varnishes, lacquer, shellac, Vinyl Epoxy, Ureathlene or any synthetic coating from wood, metal, leather, canvas. Tecstrip will not harm any surface or raise the grain of wood. A little goes a long way and its speedy action saves time and reduces labor costs. It cleanses thoroughly leaving a ready surface for re-painting, spraying, or fiberglassing.

Only* KUHLS GIVE YOU SO MUCH. *To Keep Boats Watertight
KUHLS FULL LINE

Seam Composition	No. 1 for Decks	No. 2 for Hulls
• Canvas Preservative	• Trowelast	• Woodtex (Wood Plastic)
• Seamlast	• 3-Way Preservative	• Woodtex (Surfacer)
• Bedlast	• Brushlast	• Rub-R-Tex
• Seam Paint	• Patchlast	• Rub-R-Seam
• Canvas Cement	• Double Plank Cement	• Epotex
• "Avio" Aer-O-Nautic Liquid Marine Glue	• Sealtite	• Tecstrip

FREE BOOKLET!
"HOW TO KEEP BOATS WATERTIGHT"

Contains Our Famous COMPOSITE BOAT CHART showing which one of our products to use, and where for best results. It also illustrates and describes our 19 Great Elastic Marine Products.

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World's Largest Manufacturers of Elastic Seam Composition • Glues • Cements • Preservatives

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New York Show #C-204
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model with piston displ. of 17.72 cu. in. Bore and stroke, 2⅜"x2". Zerol bevel gears, 14/23 ratio. Water cooled manual starting model with net weight of 59 lbs., for speeds up to 25 mph. Full gear shift, forward, neutral and reverse; "visi-twist" speed selector; silencing equipment. Adaptable for remote controls.

18 HP WEST BEND

18 hp at 4750 rpm, 2 cylinder model with piston displacement of 19.96 cu. in. Bore and stroke 2 7/16"x2.140". Spiral bevel gears, 11/23 ratio. Water cooled manual starting model with net weight of 64 lbs. Speeds to 32 mph. Full gear shift, visi-twist speed selector, and silencing equipment. Adaptable for remote control. Price, $395 FOB.

25 HP WEST BEND

25 hp at 4000 rpm, 2 cylinder model with 37.71 cu. in. displacement. Bore and stroke 3" x2.667". Spiral bevel gears 13/21 ratio. Water cooled electric starting model with net weight

of 123 lbs. Speeds over 30 mph. Full gear shift, dual fuel pumps, silencing equipment and adaptable for remote controls. Price, $525 FOB.

40 HP WEST BEND

40 HP at 4750 rpm, 2-cylinder model with piston displ. of 42.18 cu. in. Bore and stroke, 3⅛"x2.750". Spiral bevel gears, 13/21 ratio. Water cooled model with net weight of 114 lbs. Speeds to 42 mph. Available in electric or manual starting models with magneto ignition. Full gear shift, remote speed control, silencing equipment, thermostatic cooling. Adaptable for remote controls.

40 HP GOLDEN SHARK

40 HP at 4750 rpm, 2-cylinder model with piston disp. of 42.18 cu. in. Bore and stroke, 3⅛"x2.750". Spiral bevel gears, 13/21 ratio. Water cooled model with net weight of 137 lbs. Speeds to 42 mph. Electric starter with key switch at remote control box. Direct battery ignition and 25 amp. super-alternator generator. Full gear shift, remote speed control, silencing equipment. Adaptable for remote controls.

●

WESTERN AUTO SUPPLY CO.
2107 GRAND AVE.
KANSAS CITY 8, MO.

WIZARD 3.6

Single cylinder develops 3.6 HP at 4,000 rpm. Weighs 36 lbs. 2⅛" x 1¾" bore and stroke. Magneto lever speed control. Bronze bearings. Pivot power mount. Price $125.95.

WIZARD 7.5

Develops 7½ HP at 4,500 rpm. 2-cylinder, with bore and stroke of 1-15/16" x 1-11/16". Diaphragm carburetor. Muffler idle relief exhaust. Tilt lock. Price, $234.95.

WIZARD 12

Bore and stroke 2¼" x 2-1/16". 12 HP at 4,800 rpm. Concentric bowl carburetor. Manual drop pawl start. Twist grip speed control. Weight 770 lbs. Price, $289.95.

WIZARD 25

Delivers 25 HP at 4,800 rpm. Bore and stroke 2-51/64" x 2-7/16". Powerhead lever and twist grip speed control. Wt. 106 lbs. Available in manual and electric models. Price of electric model is $489.95.

WIZARD 40

Bore and stroke 3⅛" x 2¾". 40 HP at 4,800 rpm. Powerhead lever speed control. Auto-ignition type starter with key on electric model. Long shaft available. Electric model is priced at $579.95.

WIZARD 60

Big 3 cylinder Wizard develops 60 HP at 4,800 rpm. Bore and stroke 3⅛" x 2¾". Rubber cushioned. Muffler idle relief. Auto ignition starter with key. Price, $819.95.

NEW ANNOUNCEMENTS

●

CLINTON ENGINES CORP.
CLINTON, MICH.

Line of engines includes 23 basic gasoline engines, featuring the new air-cooled 5 HP Chief, lightweight model suitable for dinghy, canoe or any wood, aluminum or fiberglass craft.

Fleet Cap'n

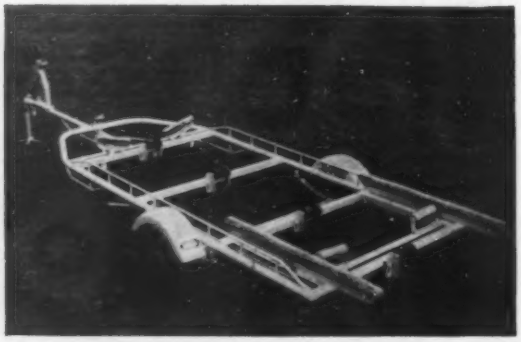
TRAILERS

• STURDY CONSTRUCTION • FULL HULL SUPPORT • EFFORTLESS LOADING AND LAUNCHING WITH CONVENIENT TRANSOM LIFT • ELEVEN COMPETITIVELY PRICED MODELS FOR BOATS 12' THROUGH 25'.

See your nearest dealer or write for full details on Fleet Cap'n's 1960 line of quality trailers.

Fleet Cap'n TRAILERS

P. O. BOX 429 NEW BERN, N. C.



Anthony *JET-STAR 15*

WORLD SPEED RECORD hydroplane skiboat

Every inch of this boat is a champion! Revolutionary three-point hydroplane hull. See the NEW 1960 Anthony runabouts, 18' and 22' cabin cruisers, 16' and 18' skiboats! Write today for brochure with action photos.

ANTHONY POWERCRAFT

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(Three-In-One)

Accurate Speedometer
10,000 Mile Recorder
Trip-Meter 100 Miles

Four Models:

Speed Boats	0-45 Knots
Cruisers	0-25 Knots
Auxiliaries	0-15 Knots
Sail Boats	0-10 Knots

For the First Time—YOU—can read your speed and mileage in one, just as in your car. Made of finest materials it works without snag or drag as proven on many cruisers and sailboats. $154.50 Post Paid

HURRICANE MARINE COMPANY

642 Beaubien Ave., Detroit 26, Mich.

INBOARD ENGINE CHART FOR 1960

GASOLINE

COMPANY	ENGINE MODEL	HP	BORE & STROKE	PISTON DISPL. cu. in.	NO. CYL.	COMP. RATIO (to 1)	RPM	LENGTH	WIDTH	HEIGHT	Weight lbs.	PRICE
Arnolt Co. Warsaw, Ind.	Sea-Mite	20.2	—	61	4	5.9	2800	29 5/8	—	16 3/8	281	—
Ballantine Ind. Abescon, N.J.	Sea Pup	5	—	—	—	—	—	18 7/8	16 1/4	—	75	—
	Sea Twin	10	—	—	—	—	—	22 5/8	17	—	109	—
Brennan Motor Mfg. Co. 101 S. Townsend Syracuse 2, N.Y.	Imp	35	—	—	—	—	—	28	—	—	200	—
	Fisherman 4	50	—	318	4	—	—	—	—	—	—	—
	Deluxe 6	—	—	415	6	—	—	—	—	—	—	—
	Custom 6	200	—	620	6	—	—	—	—	—	1600	—
Burmeister & Wain American Corp. Mystic, Conn.	B&W 30	30	—	58	4	—	4000	—	—	—	350	—
	B&W 60	60	—	133	—	—	3200	—	—	—	510	—
	B&W 105	105	—	282	—	—	3200	—	—	—	900	—
	B&W 135	135	—	320	—	—	3000	—	—	—	930	—
	B&W 155	155	—	339	—	—	3200	—	—	—	980	—
	B&W 165	165	—	339	—	—	3400	—	—	—	980	—
Chris-Craft Corp. Algonac, Mich.	B Series	60	—	132.7	4	6.78	3200	33 9/32	—	13	465	$915
	K Series	100	—	236.6	6	7.40	3800	40	—	14 1/32	695	$1250
	283 Series	185	—	283	8	8.00	4000	39 1/4	—	21 7/32	660	$1295
	430 Series	275	4.30x3.70	—	8	8.00	4000	—	—	—	994	$2495
Chrysler Corp. Marine & Ind. Div. Detroit, Mich.	Ace M-46-4	110	3 1/4x4 5/8	230	6	—	3600	43 5/16	22 1/2	16 5/8	745	—
	Ace M46S-3	110	3 1/4x4 5/8	230	6	—	3600	43 5/8	22 1/2	16 3/4	751	—
	Crown M-47-3	125	3 7/16x4 3/4	265	6	—	3600	45 7/8	22 1/2	16 3/4	814	—
	Crown M-47-4	125	3 7/16x4 3/4	265	6	—	3600	45 9/16	22 1/2	16 5/8	814	—
	Crown M47S-3	135	3 7/16x4 3/4	265	6	—	3600	45 7/8	28	16 3/4	822	—
	Sea V M-80	177	3 29/32x3 5/16	318	8	—	3600	39 13/16	27 1/2	15	898	—
	Imperial M81	225	4 1/8x3 5/8	361	8	—	4000	44 7/16	22 7/8	16 5/8	960	—
	Imperial M45-SP-3	275	3 15/16x3 5/8	354	8	—	4400	45 1/8	32 1/2	23 7/8	1071	—
Coventry Victor Motor Co. Ltd. Coventry, England	M.A.2.	5.7	—	—	2	—	3000	—	—	—	77	—
	M.W.2.	6.5	—	—	2	—	3000	—	—	—	82	—
	A.N.4.	15	—	—	4	—	3000	—	—	—	197	—
	W.C.4.	32.5	—	—	4	—	3000	—	—	—	335	—
Crusader Marine Warren, Mich.	Mark 170	170	—	—	8	—	—	—	—	—	—	—
	Mark 225	225	—	—	8	—	—	—	—	—	675	—
	Mark 240	240	—	—	8	—	—	—	—	—	—	—
	Mark 275	275	—	—	8	—	4000	—	—	—	—	$2650
	Mark 300	300	—	—	8	—	—	—	—	—	—	—
	Mark 325	325	—	365	8	—	—	—	—	—	825	—
Dearborn Marine Engines Inc. Stephenson Hwy. Madison Heights, Mich.	Interceptor	135	—	256	8	7.9	—	42 3/4	27 3/16	14 3/4	635	—
	standard	170	—	—	8	—	—	42 3/4	27 3/16	14 3/4	—	—
		185	—	—	8	—	—	42 3/4	27 3/16	14 3/4	—	—
		215	—	312	8	8.9	—	42 3/4	27 3/16	14 3/4	795	—
	Interceptor 240	240	—	361	8	8.6	—	44	29 13/16	20 5/8	875	—
	Big Boy	275	—	430	8	8.0	—	44 7/16	36 1/4	21 9/16	1010	—
Flagship Marine Engines, Inc. Lynch Cove Baltimore, Md.	Model 145	145	—	—	—	8.0	—	—	—	—	—	$1415
	Model 185	185	—	—	—	8.0	—	—	—	—	—	$1420
	Model 200	200	—	—	—	8.0	—	—	—	—	—	$1650
	Model 240	240	—	—	—	9.5	—	—	—	—	—	$1850
Gray Marine Motor Co. 710 Canton Ave. Detroit 7, Mich.	Graymarine 6	109	—	226	6	—	3400	—	—	—	—	$1222
	Fireball V-8	188	—	327	8	—	3800	—	—	—	—	—
	Fireball V-8	225	—	327	8	—	4400	—	—	—	—	—
	Big Six	165	—	363	6	—	3400	—	—	—	—	$2269
	Four-85	85	—	162	4	—	4000	—	—	—	540	$1097
	Seascout-91	25	—	91	—	—	2000	30 1/2	—	—	420	$834
Hurricane Marine Co. 642 Beaubien St. Detroit 26, Mich.	Seaman	5	—	27	1	—	1600	—	—	—	265	$485
	Cadet	10	—	54	2	—	1600	—	—	—	315	$565
	Boatswain	15	—	85	2	—	1500	—	—	—	492	$710
	20 Mate	20	—	107	—	—	1600	—	—	—	496	$895
	40 Mate	40	—	107	—	—	2500	—	—	—	496	$995
Palmer Engine Co. Cos Cob, Conn.	PW-27	8	—	—	1	—	2800	—	—	—	150	—
	IH-60	22	—	—	4	—	3000	—	—	—	350	—
	PH-134	60	—	—	4	—	3200	—	—	—	460	—
	IH-240-SM	120	—	—	6	—	3400	—	—	—	850	—
	IH-264-SM	135	—	—	6	—	3400	—	—	—	850	—
	IH-240	120	—	—	6	—	3400	—	—	—	850	—
	IH-264	135	—	—	6	—	3400	—	—	—	850	—
	IH-308	150	—	—	6	—	3400	—	—	—	925	—
	IH-V345	200	—	345	8	—	4000	—	—	—	900	—
	IH-V549	300	—	—	8	—	3600	—	—	—	1600	—
Star Marine Engine Works 2920 7th St. Berkeley, Calif.	Emperor 25	25	—	—	—	—	—	—	—	—	—	—
	Emperor 6-90	90	—	—	6	—	4000	—	—	—	—	$898
	Emperor 215	215	—	389	8	—	—	—	—	—	—	$1650
	Emperor 345	345	—	—	8	—	—	—	—	—	—	—

(continued on next page)

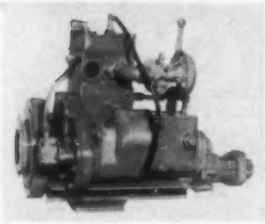
COMPANY	ENGINE MODEL	HP	BORE & STROKE	PISTON DISPL. cu. in.	NO. CYL.	COMP. RATIO (to 1)	RPM	LENGTH	WIDTH	HEIGHT	Weight lbs.	PRICE
Universal Motor Co.	Blue Jacket Twin	12	—	50	2	—	2200	28 1/8	—	15 11/16	336	—
551 Universal Dr.	Utility Four	25	—	95	4	—	2200	34	—	15	345	—
Oshkosh, Wis.	Atomic Four	30	—	—	4	—	—	—	—	—	—	—
	Unimite Four	70	—	141	4	—	3500	36 15/16	—	14 3/4	400	—
	Norseman Arrow	100	—	—	—	—	—	—	—	—	—	—
	Norseman Marlin	110	—	—	—	—	—	—	—	—	—	—
	Bluefin	113	—	230	6	—	—	—	—	—	—	—
	Bullet	120	—	237	—	—	—	—	—	—	—	—
	Tarpon	140	—	320	—	—	—	—	—	—	—	—
	Knight	165	—	340	—	—	—	—	—	—	—	—
	V-King	275	—	430	8	7.5	3600	46 11/16	31 1/2	30 7/8	939	—
Volvo Imports, Inc.	C-23	14	3.44x3.54	65.9	2	—	1800	33 11/16	17 1/2	22 1/2	340	—
452 Hudson Terrace	BB 70	75	3.12x3.15	96.6	4	—	4500	40 1/8	17 1/8	27 5/8	430	—
Englewood Cliffs, N.J.	Aquamatic	80	3.12x3.15	96.6	4	—	4500	32	17 1/8	27 5/8	440	—

DIESEL

COMPANY	ENGINE MODEL	HP	BORE & STROKE	PISTON DISPL. cu. in.	NO. CYL.	COMP. RATIO (to 1)	RPM	LENGTH	WIDTH	HEIGHT	Weight lbs.	PRICE
American Marc, Inc.	Marc WC-1	—	—	—	—	—	—	—	—	—	—	—
Inglewood, Calif.	Marc WC-2	—	—	—	—	—	—	—	—	—	—	—
Brennan Motor Mfg. Co.	Brennan	—	—	415	6	—	—	—	—	—	—	—
101 S. Townsend												
Syracuse, N.Y.												
Caterpillar Tractor Co.	D320	130	4x5	252	4	—	2400	56	28	38	1275	—
Peoria, Ill.												
Cerlist Diesel, Inc.	Model 3M	85	—	—	—	—	3000	—	—	—	775	—
1709 N. Church St.												
Burlington, N.C.												
Coventry Victor	A.D.3.	7.9	—	—	—	—	1800	—	—	—	338	—
Motor Co. Ltd.	W.D.3.	10.6	—	—	—	—	2000	—	—	—	276	—
Coventry, England	H.D.A.	19	—	—	—	—	2000	—	—	—	482	—
	H.D.W.	24	—	—	—	—	2250	—	—	—	427	—
Daimler Benz of	Mercedes Benz	—	—	—	—	—	—	—	—	—	—	—
North America Corp.	Diesel engines											
126-56 Northern Blvd.												
Flushing, N.Y.												
Detroit Diesel Engine	GM 3-53	86	3 7/8x4 1/2	53	3	—	2800	40 11/16	33 21/32	27 7/8	1090	—
Div. of General Motors	GM 6V-53	195	3 7/8x4 1/2	53	6	—	2800	49 5/16	36	40	1700	—
13400 W. Outer Dr.	GM 6V-71	252	4 1/4x5	71	6	—	2300	55 1/4	45 1/4	44 1/16	2570	—
Detroit 28, Mich.	GM 8V-71	336	4 1/2x5	71	8	—	2300	61	47	45 1/2	3200	—
	GM 4-53	120	3 7/8x4 1/2	53	4	—	2800	46 3/32	33 21/32	27 7/8	1240	—
Diesel Energy Corp.	F1L 712	13	3 3/4x4 3/4	52	1	20.5	2300	20	20	30 1/4	440	—
82 Beaver St.	F2L 712	26	3 3/4x4 3/4	104	2	20.5	2300	24 3/8	20 3/8	31 1/4	565	—
New York 5, N.Y.	F3L 712	39	3 3/4x4 3/4	156	3	20.5	2300	30 1/8	25 1/8	33	660	—
	F4L 712	52	3 3/4x4 3/4	208	4	20.5	2300	35 1/8	25 1/8	33	792	—
	A6L 514	110	4 3/8x5 1/2	487	6	19.2	2000	54 3/4	33 1/4	40 3/8	1607	—
	A12L 614	220	4 3/8x5 1/2	974	12	19.2	2000	65 1/2	47 3/4	34 3/4	2852	—
Gray Marine Motor Co.	Four D129	25	—	129	4	—	2000	—	—	—	656	$2781
710 Canton Ave.	Four D277	60	—	277	4	—	2200	—	—	—	—	—
Detroit 7, Mich.	Six D427	130	—	427	6	—	2400	—	—	—	1500	$4015
Hercules Motors Corp.	Hercules	50	—	—	3	—	—	—	—	—	—	$950
101 11th St. S.E.	Hercules	115	—	—	6	—	3000	—	—	—	—	$1400
Canton 2, Ohio	Hercules	225	—	—	8	—	2600	—	—	—	1450	—
Hurricane Marine Co.	BSM VLD-5	6	—	34	1	19.0	1400	—	—	—	400	$725
642 Beaubien St.	BSM 2-FD-25	17	3.54x4.33	85.4	2	18.5	1800	—	—	—	737	$1575
Detroit 26, Mich.												
Lister-Blackstone, Inc.	HB2M	24	4x4 1/2	—	2	12.0	2000	44	—	35 1/4	670	—
42-32 21st St.	HB3M	36	4x4 1/2	—	3	17.0	2000	50	—	35 1/4	760	—
Long Island City 1, N.Y.	SLM 3	12 3/4	3 3/16x3 1/2	—	3	—	1800	35	—	28	470	—
Murphy Diesel	CBD-243	243	—	—	—	—	—	—	—	—	—	—
5317 W. Burnham St.												
Milwaukee 14, Wis.												
Oronda Industrial Inc.	PAZ-1	3	3x3	—	1	—	1800	18	18	26	260	—
34-14 58th St.	AVA1	6	3.15x4.33	—	1	—	1800	30	20	30	406	—
Woodside 77, L.I., N.Y.	PHW2	16.4	3.43x4.33	—	2	—	2000	37	30	30	598	—
	B4T	40	4.33x4.33	—	4	—	1500	57	23	46	1491	—
	PDV8	104	4.5x4.33	—	8	—	1800	47 13/16	49	—	1990	—
Volvo Import, Inc.	MD1	5	3 1/8x3 35/64	—	1	—	2000	—	—	—	285	—
452 Hudson Terrace	1051BR	11.8	4 1/8x5 1/8	—	1	—	1500	—	—	—	1070	—
Englewood Cliffs, N.J.	1052BR	29	4 1/8x5 1/8	—	2	—	1800	—	—	—	1280	—
	1113BR	50	4 3/8x5 1/8	—	3	—	2000	—	—	—	1960	—
	1114BR	65	4 3/8x5 1/8	—	4	—	2000	—	—	—	2100	—
	MD67	87	4 1/8x5 1/8	—	6	—	1800	—	—	—	2200	—
	MD96	127	4 3/8x5 1/2	—	6	—	1800	—	—	—	2870	—
	TIMD96	185	4 3/8x5 1/2	—	6	—	1800	—	—	—	2870	—

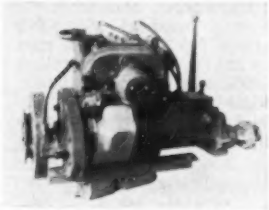
GASOLINE INBOARD ENGINES

BALLANTINE IND.
ABESCON, N. J.



SEA PUP

5 HP engine weighs 75 lbs. with direct drive, and 93 lbs. with reverse and reduction gears. Dimensions are 16¼" wide, 18⅞" long, with engine bed drilled on 11" centers. Engine is available as basic unit only, or engine and reverse gear, or engine, reverse gear and 2.5 to 1 reduction gear. Also available are electric starter kit, electric generator kit and fuel pump assembly.



KERMATH SEA TWIN

10 HP engine weighs 109 lbs., or 126 lbs. when equipped with reverse and reduction gears. Dimensions are 17" wide, 22⅝" long, with engine bed drilled on 11" centers. May be ordered as basic engine, or engine and reverse gear, or engine, reverse gear and 2.5 to 1 reduction gear. Also available are electric starter kit, electric generator kit and fuel pump assembly.

BRENNAN MOTOR MFG. CO.
SYRACUSE 2, N. Y.

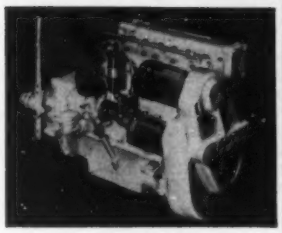
BRENNAN "IMP"

35-HP marine gasoline engine with piston displ. of 50 cu. in. 160 lbs. total weight in the direct drive model; also available with a built-in 2 to 1 reduction gear. Featured by the mfr. is the Brennan "Power-package" consisting of the "Imp" and an outboard drive. Other engines including the "Fisherman Four" rated at 50-75 HP, and the Deluxe Six series in sizes up to 250 HP, available.

BURMEISTER & WAIN
AMERICAN CORP.
MYSTIC, CONN.

B. & W. LATHROP

30 BHP at 4000 rpm; 4-cylinder, 4 cycle gasoline marine engine; bore and stroke 2½"x 3"; piston displ. 58 cu. in. Weight 295 lbs. wet. Length 32¼", height above shaft 15 9/16", width hole centers 16", depth below shaft 7¾". Rotation for r.h. propeller. 12-volt electrical system.



B. & W. LATHROP

155-HP at 3400 rpm; 6-cylinder, 4 cycle marine engine; bore and stroke 4"x4½"; piston displ. 339 cu. in. Weight 925 lgs. Length overall, D.D. 47"; height above shaft 17", width hole centers 16" or 22½", depth below shaft 9". Rotation for r.h. propeller. 12-volt electrical system. Other models, 60 HP, 105 HP, 135 HP and 165 HP.

CHRIS-CRAFT CORP.
ALGONAC, MICH.

B SERIES

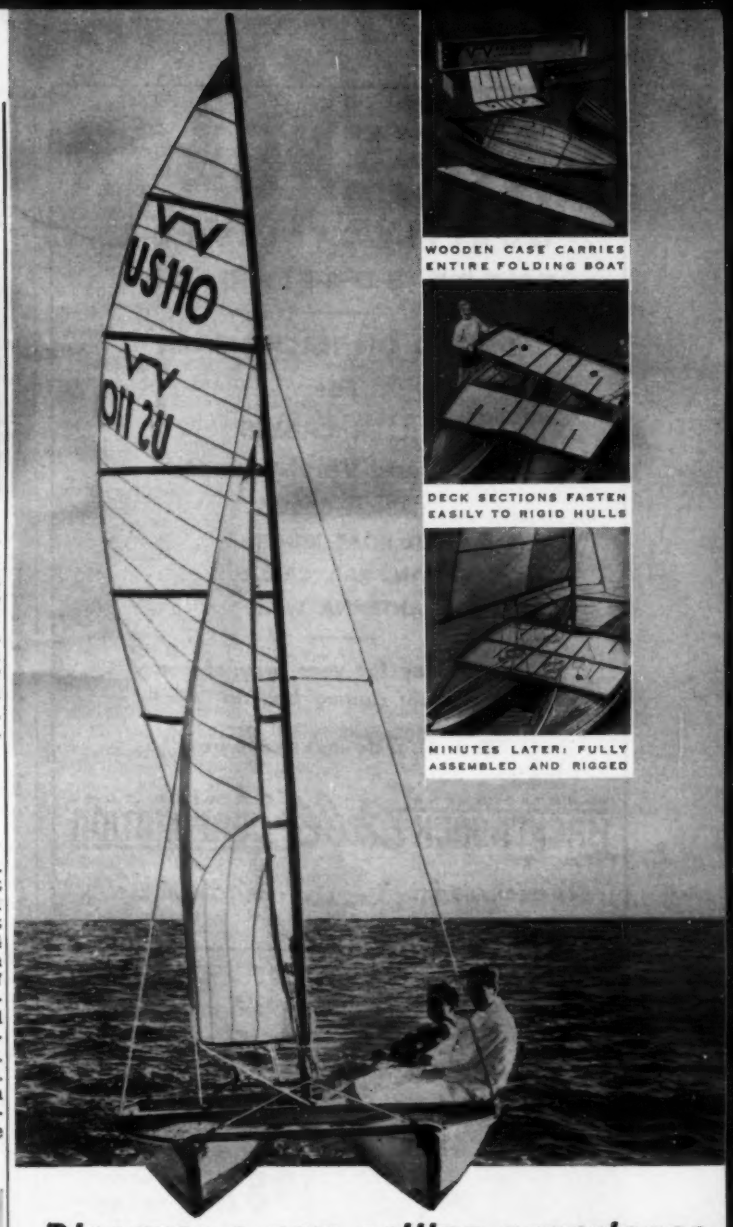
4 cylinder in line gas engine. Develops 51 cruising HP at 2500 rpm, fuel consumption 4.1 gal. per hour. 60 rated HP at 3200 rpm, fuel consumption 5.4 gal. per hour. Compression ratio 6.78:1. Displacement 132.7 c.i. Either direct drive or reduction gear, ratios 2:1 and 3:1. Weight 465 lbs., with reduction gear 495 to 505 lbs. Height, 13"; length, 33 9/32". Full length water jacket. Cam ground aluminum pistons. Replaceable type bearings. Price from $915.

283 SERIES

8 cylinder V-8 gas engine. Develops 167 HP at 3400 rpm, fuel consumption 10.1 gal. per hour. 185 rated HP at 4000 rpm, fuel consumption 12.6 gal. per hour. Compression ratio 8:1. Displacement 283 c.i. Either direct drive or reduction gear, ratio 1½:1 and 2:1. Weighs 660 lbs., with reduction gears 914 lbs. Height, 21 7/32", length, 39¼". Four barrel down draft carburetor with flame arrestors. 12 volt electrical system. Automatic choke. Rubber engine mounts. Price, from $1,295.

MODEL 430

New Chris-Craft model 430 V8 marine engine delivers 275 hp at 4000 rpm with non-premium fuels. Compression ratio is 8 to



Discover a new sailing experience with the WAVERIDER catamaran!

The moment you see or sail the new WAVERIDER, you'll realize that this unique 16-foot racing craft is designed for **speed!** And you can sail the WAVERIDER anywhere you wish. It's simple to maneuver, beach or transport. The WAVERIDER is constructed on a revolutionary principle that enables you to assemble the boat — **in minutes.** Decks, cockpit and mast are built in easily handled components. Rugged plywood hulls fold. Unfolded, these hulls are completely **rigid.** The entire boat fits into its own carrying case. Exceptionally durable, the WAVERIDER promises endless sailing pleasure.

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COMPLETE WITH SAILS.....$1,750 WITHOUT SAILS.....$1,500

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Wilson-Imperial Co., 133 Chestnut St., Newark 5, N.J.

1. Bore 1.30", stroke 3.70". Hydraulic clutch is standard. Direct drive, opposite rotation and reduction gears of 2.50 to 1 are optional. Compact design makes the new 430 V8 ideal for installation in larger utilities, single or twin screw cruisers and yachts. Price, $2495.

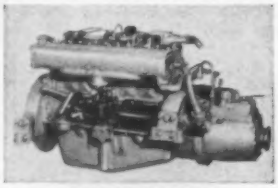
●

CHRYSLER CORP.
MARINE & INDUSTRIAL DIV.
DETROIT, MICH.

ACE M-46-4
6 cylinder marine engine with hydraulic reverse gear. Rated at 110 HP at 3,600 rpm. Wide selection of reduction gears available. Weight ranges from 745 lbs. to 850 lbs. depending on reduction gear.

ACE SPECIAL M46S-3
6 cylinder develops 110 HP at 3600 rpm. Weight ranges from 751 lbs. to 882 lbs. depending on reduction gears of 1.43, 2.04, 2.56 and 3.17 all to 1.

CROWN M-47-3
6 cylinder develops 125 HP at 3,600 rpm. Weight from 814 lbs. to 945 lbs., with reduction of 1.43, 2.04, 2.56, and 3.17 to 1.

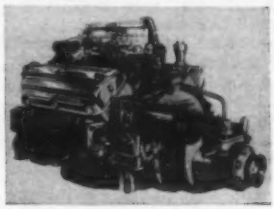


CROWN M-47-4
6 cylinder marine engine develops 125 HP at 3,600 rpm. Straight drive and reduction of 1.50, 2.00, 2.50, and 3.00 all to 1. Weight range 814 to 919 lbs.

CROWN SPECIAL M47S-3
Crown Special has 6 cylinders developing 135 HP at 3,600 rpm. Reduction of 1.43, 2.04, 2.56, and 3.17 to 1. Straight drive. Weight 822 lbs. to 953 lbs.

SEA V M-80
Sea V develops 177 HP from 8 cylinders with displacement of 318 cu. in. Reduction gears available: 1.50, 2.00, 2.50, and 3.00 to 1. Weight range depending on reduction, 898 to 1,003 lbs.

IMPERIAL M81
Straight drive available as on all models or reduction of 1.50, 2.00, 2.50 and 3.00 to 1. Rated at 225 HP at 4,000 rpm. Weight range 960 lbs. to 1,009 lbs.



IMPERIAL M45-SP-3
The big Imperial M45-SP-3 develops 275 HP at 4,400 rpm from 354 cu. in. Wide selection of reduction gears available. Weight ranges from 1,071 to 1,254 lbs. depending on reduction.

●

CRUSADER MARINE
WARREN, MICH.

MARK SERIES
The Mark 275 is the newest engine to be added to the low silhouette, pancake-type engine line. Mark 275 will develop 275 HP at 4,000 rpm. Standard features are dual throat side draft carburetor, twin chain-driven water pump, twin 8-plate oil coolers and a high torque mechanical camshaft with valve adjustment under the valve covers. Other models are available in 170, 225, 240, 300, and 325 HP.

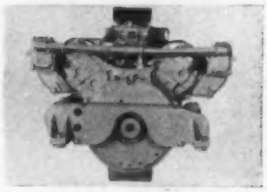
●

DEARBORN MARINE ENGINE, INC.
31465 STEPHENSON HWY.
MADISON HEIGHTS, MICH.

INTERCEPTOR STANDARD
Interceptor 135, 170, 185 and 215 HP models feature high exhaust manifold, accessibility for inspection and service, light weight, dependable, modern V-8 efficiency. Weight ranges from 635 to 795 lbs.

INTERCEPTOR 240
The powerful 240 HP, 361 cu.

in. Interceptor engine is designed for use in large cruisers. Weight 875 lbs. with 8.6-to-1 compression ratio.



BIG BOY

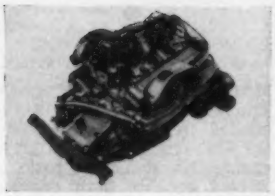
Dearborn Marine's powerful new 275 HP Big Boy for heavy cruisers. Will bring heavy boats to planing position and hold them there, throttled back for cruising. Power comes from modern, overhead valve, 8-cylinder, 90 degree V engine which is light and compact.

●

FLAGSHIP ENGINES, INC.
LYNCH COVE, BALTIMORE, MD.

FLAGSHIP 145

Most efficient at low trolling speeds, the Flagship 145 is an extremely compact, dependable performer featuring exclusive Ram's Horn manifold as standard equipment and has 8:1 compression ratio and 2-barrel carburetor. Price $1,415 FOB.



FLAGSHIP 185

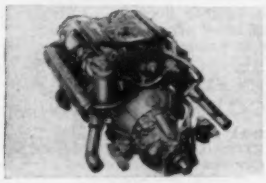
Best for all around performance, the 185 has good trolling ability plus exceptional high-end performance up to 4000 RPM. Comes equipped with manual or hydraulic reverse, direct or reduction drive, 4-barrel carburetor and has 8:1 compression ratio. Price $1,420 FOB.

●

GRAY MARINE MOTOR CO.
710 CANTON AVE.
DETROIT 7, MICH.

GRAYMARINE SIX

Model 109, rated 109 HP at 3,400 rpm. Piston displacement 226 cu. in. New design for 1960 has many improved features. Warner Hydraulic Gear with separate oil cooler is standard. Prices from $1,222 for direct drive, manual model to $1,599 with 2-to-1 reduction gear, hydraulic model.



FIREBALL V-8

Rated 188 HP at 3,800 rpm. Piston displacement 327 cu. in. A companion engine is rated 225 HP at 4,400 rpm, using premium gasoline. Two smaller V-8s have piston displacement of 250 cu. in. rated 135 HP with single carburetor and 170 HP with dual carburetors. Both use either regular or premium fuel. All gray V-8s use Warner hydraulic transmission as standard equipment.

BIG SIX

Gray builds two engines of 363 cu. in. piston displacement rated 165 and 175 HP, also two with piston displacement of 427 cu. in. rated 185 and 200 HP. These engines produce peak power at 3,400 rpm, and are capable of handling large propellers. Prices, from $2,269 to $3,535.

MODEL FOUR-85

Four cylinders in line, piston displacement 162 cu. in. This small high-output engine weighs only 540 lbs. delivers 85 HP at 4,000 rpm. Counterweighted crankshaft and oil cooler are standard equipment. Price, direct drive, $1,097.

SEASCOUT-91

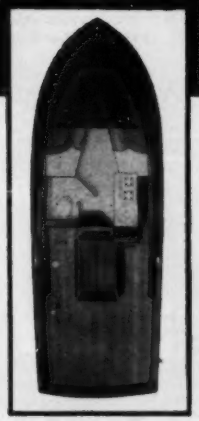
Widely used as auxiliary in sail boats. Develops 25 HP at 2,000 rpm. Piston displacement 91 cu. in. Weight 390 lbs., direct drive; or 420 lbs. with 2-to-1 reduction gear. Length 30½"; Price, $834.

●

HURRICANE MARINE CO.
642 BEAUBIEN ST., DETROIT 26, MICH.

IMPORTED GAS ENGINES

"Albin" (Swedish) Marine gasoline engines, slow speed (1600 rpm), 4-cycle models at 5-HP, 1-cyl., $485; 10-HP, 2-cyl., $565; 15-HP at 1500 rpm, 2-cyl., $710; 20-HP, 4-cyl., $895; 40-HP at 2500 rpm, 4-cyl., $995. All engines fitted with starter, generator, and reverse gears.



Sea Breeze Model 242 EXPRESS CRUISER Unquestionably the finest, most comfortable 2-sleeper Express Cruiser in her class, she's both rugged and roomy . . . built to the high marine standards that have made the Trojan name famous. Comfortable cabin offers stand-up headroom and all-around ventilation . . . features larger-than-ever ship's galley, completely equipped, to simplify preparing anything from snacks to a full meal. The more time you spend aboard this rugged cruiser, the more you'll appreciate her luxurious **feel**, both at anchor and underway. Never before has there been so much spaciousness . . . so many features . . . so much comfort . . . in a boat of this size!

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MINTREX CORP.
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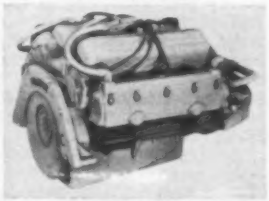
NEW YORK 4, N.Y.

MAELSTROM AMERICA SIX

The Maelstrom America Six is offered in two basic models, the 6/90 engine and the 6/130 engine. No reduction ratio is offered because both engines are of relatively large displacement and put out significant torque at low rpm. Forward, neutral and reverse is incorporated in the Seapower Outdrive unit. The Seapower Outdrive may be used in either tractor or pusher position. Maelstrom 6/90 has displacement of 170 cu. in., developing 90 hp at 4000 rpm. Maelstrom 6/130 has 223 cu. in. displacement and develops 130 hp at 4000 rpm. Volkswagen-powered units are available on special order and incorporate the Seapower Outdrive.

●

PALMER ENGINE CO.
COS COB, CONN.



IH-V345

One of a number of dependable inboard engines offered this year is the IH-V345, based on an International Harvester light truck V-8 truck engine block. Displacement is 345 cu. in. rated at 200 HP at 4,000 rpm. Weight 900 lbs. Palmer engines range from the PW-27, rated at 8 HP to the IH-V549 rated at 300 HP.

●

STAR MARINE ENGINE WORKS
2920 SEVENTH ST.
BERKELEY 10, CALIF.

EMPEROR V8

The Supermarine engine is displaced with 389 cu. in., available in 215 HP to 345 HP. Price $1,650 FOB. The Emperor 6-90 is a 6 cylinder rated at 90 HP at 4,000 RPM. Priced from $898 FOB. Available bobtailed for use with popular outdrive units. Other models from 25 HP. Also marine conversion kits for front and flywheel end conversion of most popular automotive engines.

●

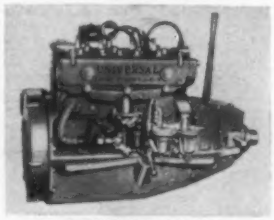
STOKES MARINE SUPPLY CO.
505 E. CHICAGO ST.
COLDWATER, MICH.

INBOARD ENGINES

Line includes new and rebuilt engines, with wide choice of reverse gears. Featured are conversions of all new 1960 engines including Willys 75 HP Lightning 6; Hudson Wasp 126 HP 6 cylinder; Hudson Hornet 170 HP six cylinder; 275 HP Packard and 180 Pontiac V-8. Other engines available as rebuilts are all models of Ford 6, Ford V-8, Plymouth and Dodge V-8, Chevrolet V-8, Olds V-8, Chrysler V-8, Studebaker Champion 6 and Crosley 4, all rebuilt blocks with all-new conversion equipment on them. Also available are converted transmissions, Paragon reverse and reduction gears, and all models are offered with new Borg-Warner Hydraulic Velvet Drive reverse and reduction gear.

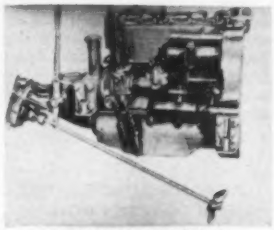
●

UNIVERSAL MOTOR CO.
551 UNIVERSAL DR.
OSHKOSH, WIS.



ATOMIC FOUR

Universal Atomic Four marine engine develops 30 HP and has a piston displacement of 65 cu. in.

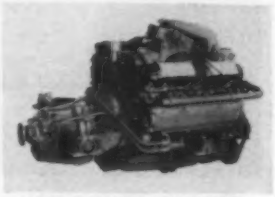


MODEL HF-VD

Universal Aqua-Pak V-Drive marine engine is rated at 70 HP.

NORSEMAN BLUEFIN

Norseman Bluefin is a marine engine which develops 113 HP from a piston displacement of 230 cu. in.



NORSEMAN "V-KING"

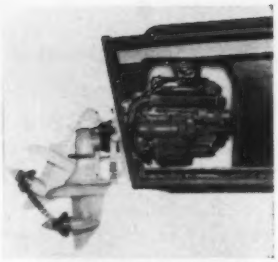
275 HP (at 3600 rpm) V-8 engine. Weighs 939 lbs. in the direct drive model. Piston displacement, 430 cu. in.; compression ratio, 7.5 to 1. Dimensions, 46-11/16"x31½"x 30⅞". Reduction gear ratios of 1.5 to 1 and 2 to 1 are available.

●

MARINE ENGINE DIV.
VOLVO IMPORT, INC.
ENGLEWOOD CLIFFS, N. J.

VOLVO AQUAMATIC

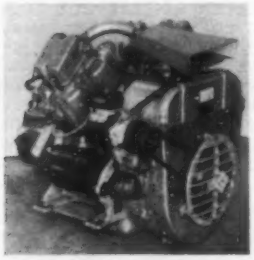
A Volvo marine power combination of inboard and outboard components. Unit is designed to fit existing outboard



boats without altering basic design (no need of special engine bed, stringers, stuffing box or shaft). 80 HP, 4-cycle marine engine built for sustained high speed operation; consumes 1.9 gallons fuel per hour. Drive unit features "outboard tilt protection." Any type standard steering device may be used and a full instrument panel is available from the builder. Aquamatic has full gear shift, forward, neutral and reverse, with a reduction gear ratio of 1.6 to 1. Full output of 80 HP is at 4,500 rpm. Complete power package is $1,395. Unit is built for maximum corrosion resistance with stainless steel and nylon used where applicable. Three gasoline engines are offered ranging from 14 to 85 HP.

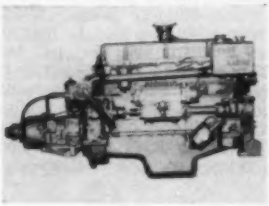
DIESEL ENGINES

AMERICAN MARC INC.
MARINE DIV.
1601 W. FLORENCE AVE.
INGLEWOOD, CALIF.



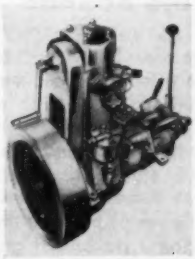
AC-2M MARINE DIESEL
The AC-2M is a dependable twin cylinder, air-cooled Marine Diesel being offered by American Marc. A single cylinder inboard marine diesel engine is also available.

BARR MARINE PRODUCTS CO.
2700 E. CASTOR AVE.
PHILADELPHIA 34, PA.

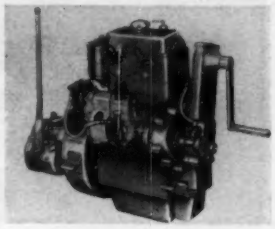


BARR MARINE DIESELS
Available are two new diesel engines suitable for use in pleasure and commercial boats up to 60′ in length. Both engines utilize the basic Ford diesel block with all necessary marine adaptations installed by Barr at the factory. 6-cylinder model develops 100 HP at 2,250 rpm from 330 cu. in. and weighs 1,200 lbs. The 4-cylinder models develops 60 HP at 2,250 rpm from 220 cu. in. and weighs 800 lbs. Prices complete and ready for installation including reverse gear start at $2,050 for the 4-cylinder and $2,800 for the 6-cylinder.

BERGBOLAGEN
HURRICANE MARINE CO.,
642 BEAUBIEN ST., DETROIT 26, MICH.

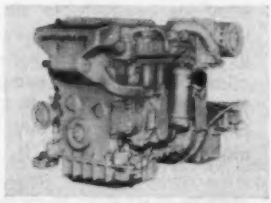


6-BHP BERG SKANDIA
6-HP, 1-cylinder, 4-cycle marine diesel engine, type VLD-5, made in Sweden. 34 cu. in. displ., 19:1 compression ratio. Features low fuel consumption, convenient starting by raised crank, and fully enclosed reversing gear. Price FOB Detroit, $723 (with reverse gear and direct drive), $843 (with reverse and 2:1 reduction gear).



17-BHP BERG SKANDIA
17-HP, 2-cylinder, 4-cycle marine diesel engine, type 2 FD 25, made in Sweden. Bore and stroke, 3.54″x4.33″; cubic capacity, 85.4 cu. in.; 18.5:1 compression ratio. Gross weight with red. rev. gear, 893 lbs. Price, FOB Detroit, $1,575 (direct drive), $1,635 (2.3:1 reduction gear model).

CATERPILLAR TRACTOR CO.
PEORIA, ILL.



CAT MARINE ENGINES
Weighing about 1300 lbs., this 4-cycle, 4-cylinder diesel will fit in space occupied formerly

This is it — the most boat for the least money. The Pembroke 27′ features extra rugged design and first class accommodations for four, making the 1960 Pembroke the ultimate in its field.

- Solid mahogany round bilge lapstrake construction
- Delivered completely equipped
- Beauty, style, performance and durability

The Pembroke 23′ has more plus features than any boat in its class. Sleeps three, full galley, ice box and enclosed head. By far the best buy in the 23′ class.

- Overnight accommodations for three
- Solid mahogany round bilge lapstrake construction
- Extra roomy afterdeck

For full color brochure and name of nearest dealer, write: **PEMBROKE** Boats, Inc., Dept. 10, Epsom, N. H.

Coronet first outboard to cross the Atlantic

She'll love this Coronet! The Explorer 21 with Volvo Aquamatic drive means family fun afloat with minimum maintenance and lowest operating cost. As with all Coronets, the Explorer combines mahogany, teak and fiberglas with the finest Danish craftsmanship and offers many exclusive features not found in other boats. It also provides comfortable sleeping for three with private toilet and complete galley. It hardly seems possible that its 30 mile speed consumes less than 2 gallons of gasoline per hour. If you are considering a cruiser this year, you owe it to yourself to get all the details on the Explorer before you buy. Other inboard and outboard models from 16 to 21 ft.

CORONET BOAT COMPANY, Inc.
2233 Eastern Avenue • Cincinnati 2, Ohio

Lasts Longer! Saves Haulouts!

COPEROYD anti-fouling bottom coating contains more metallic copper than any other. Resists blows, abrasions. Quickly dries to hardest, slickest racing finish known. Impervious to teredos, all marine growths. Retains anti-fouling properties even if hauled, eliminating need for repainting. Available at better dealers. Write for full story.

See us at Booth D-81 New York Boat Show.

- **Anti-fouling** protects completely in all waters
- **Durability** withstands scouring, chafing, bumping
- **Speed** makes slickest racing finish known
- **Application** effective on wood, metal, fiberglass

METALLIC COATINGS CORPORATION
919 N. Michigan Ave., Chicago 11, Ill.

COPEROYD
REG. U.S. PAT. OFF.

B&W GASOLINE ENGINES
Lathrop

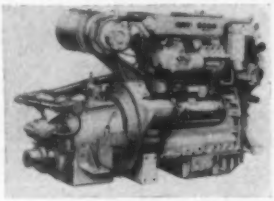
MARINE POWER AT ITS BEST

HIGHEST QUALITY
THROUGH SUPERIOR
MARINE ENGINEERING

Available from 30 hp to 155 hp

BURMEISTER & WAIN AMERICAN CORPORATION
MYSTIC 8, CONN. PHONE: JEfferson 6-2637

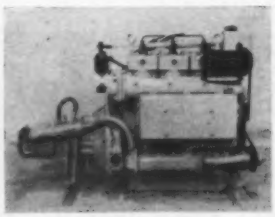
by only gasoline and 2-cycle diesel engines. This, plus companion D330 and D333, offers a dependable engine to the yacht-powering field. They are smooth, quiet and run with a clear, non-toxic exhaust under any condition of load and speed. They idle indefinitely and operate on commonly available #2 household furnace oil. These engines are available for new installations or for repowering.



D320
4-cylinder, 4 cycle, valve-in-head engine is turbocharged and aftercooled and develops 130 HP at 2,400 rpm. Displacement 252 cu. in. Bore and stroke 4" x 5". Ratios range from 1 to 1 to 4 to 1. Length 56", width 28", height 38". Weight 1,275 lbs. Electric 12 volt starting with charging generator is standard equipment. 32 volt electric starting system or hydraulic motor starting are also available.

●

CERLIST DIESEL, INC.
1709 N. CHURCH ST.
BURLINGTON, N. C.



MODEL 3M
Develops 85 HP at 3,000 rpm. Weight 775 lbs. Equipped with Warner hydraulic marine gear. Gear ratios up to 3 to 1. Opposite rotation gears available.

●

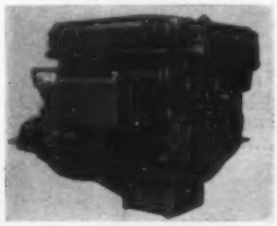
CHRYSLER CORP.
MARINE & INDUSTRIAL
ENGINE DIV.
DETROIT 31, MICH.

DIESEL ENGINES
Complete line of diesel engines is available, manufactured by Klockner-Humboldt-Deutz of Germany, is offered through Chrysler Corporation in cooperation with United States Diesel Energy Corp. in New York, a Deutz subsidiary. Deutz specializes in a line of air-cooled engines ranging from 9 hp to 300 hp. Sixteen basic models are included in the group. All engines can deliver full-rated power in from 30 seconds to one minute after a cold start, and no part of the engines is in contact with corrosive sea water.

●

DETROIT DIESEL ENGINE
DIVISION
GENERAL MOTORS
CORPORATION
13400 W. OUTER DR.,
DETROIT 28, MICH.

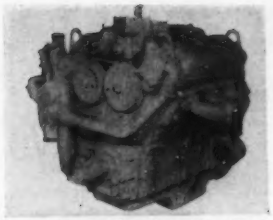
GM 3-53
One of a new line of General Motors diesels designed for compactness and light weight. Develops 86 HP at 2800 rpm; weight, 1050 lbs., or 12.2 production lbs./max. HP. Displ., 53 cu. in.; bore and stroke, 3⅞"x4½". GM's 53 series, new for 1959, has been designed especially for pleasure craft and small work boats. Series includes 2, 3, 4 cylinder in-line models and a V-6 unit, ranging from 20 to 195 HP.



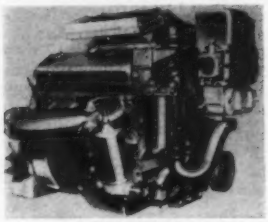
GM 4-53
Generally this engine is regarded as a smaller version of the famous 4-71, with a smaller base and stroke but retaining much of the same sound basic engineering. Develops 120 SHP at 2800 RPM; weight 1200 lbs., or 9.2 lbs. per HP, displacement 53 cu. in.; bore and stroke, 3⅞" x 4½".

GM 6V-53
A new "V" 6 cylinder General Motors diesel designed for compactness and light weight. Develops 195 HP at 2,800 rpm; weight 1,340 lbs., or 7.1 production lbs./max. HP. Displacement 53 cu. in.; bore and stroke, 3⅞"x4½".

GM 6V-71
A new "V" firing diesel rated at 252 HP at 2,300 rpm. Displacement, 71 cu. in.; bore and stroke, 4¼"x5". Weight, 1,855



lbs.; 7.7 production lbs./max. HP.



GM 8V-71

New "V" firing diesel rated at 336 HP at 2,300 rpm. 8-cylinder model with 71 cu. in. displacement, bore and stroke, 4½"x5". Weight, 2,305 lbs.; 7.2 production lbs./max HP. Other models available from 20 HP to 1,650 HP.

●

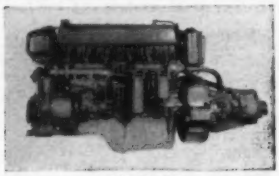
GRAY MARINE MOTOR CO.
710 CANTON AVE.
DETROIT 7, MICH.

FOUR D129

4 cylinder, 4 cycle marine diesel rated 25 HP at 2,000 rpm. Piston displacement 129 cu. in. Now equipped with Warner hydraulic transmission, direct drive or reduction gear. LH or RH rotation. Weight 656 lbs. with reduction gear. Fresh water cooling standard. Price, $2,781.

FOUR D277

4 cylinder, 4 cycle marine diesel rated 60 HP at 2,200 rpm. Piston displacement 277 cu. in. Available with or without reduction gear, wide range of ratios. Manual or hydraulic reverse gear. Roosa-Master fuel pump, Lanchester Balancer and rubber mountings are standard equipment. Fresh water cooled.



SIX D427

Lightweight Graymarine Diesel Model Six D427, rated 130 HP at 2,400 rpm. Specially designed for pleasure cruisers, utility and work boats. 4 cycle type, naturally aspirated, with air intake silencers. Fresh water cooling is standard. Weight 1,500 lbs. with Warner heavy duty Model 72 hydraulic gear. Prices, from $4,105.

●

HERCULES MOTORS CORP.
101 11TH ST.
CANTON 2, OHIO

HERCULES POLYDIESELS

A complete line of 6 and 8 cylinder flat and vertical diesel engines for pleasure craft and workboats are offered in sizes from 125 to 300 shaft horsepower at speeds up to 3,000 rpm. Polydiesel engines operate interchangeably on diesel oil, gasoline, kerosene, jet fuels or almost any hydrocarbon. A number of Polydiesels are available.

ALUMINUM HERCULES 2600

Aluminum Hercules 2600 rpm V-8 diesel engine weighs only 1,450 lbs. Automotive rating of 225 HP. About 1,000 lbs. lighter than conventional diesels of comparable capacity, with additional advantage of operation on other fuels, such as gasoline, kerosene and jet fuels.

240 HP HERCULES

6-cylinder, heavy-duty diesel engine develops 240 HP at 2400 rpm. When turbo-charged, it develops 350 HP.

150 HP HERCULES

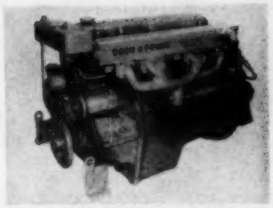
6-cylinder, 150 HP turbo-charged Hercules diesel engine weighs 850 lbs. with advantage of low weight per horsepower. Designed primarily for automotive applications, Hercules diesels are adaptable to marine uses.

●

LEHMAN MFG. CO.
972 BROAD ST.
NEWARK 2, N.J.

ECON-O-POWER

Econ-O-Power diesels are rates as follows: 4 cylinder, 60 hp at 2250 rpm; 6 cylinder, 96 hp at



2250 rpm. Both engines are capable of turning large propellers by reason of high torque developed. Four cycle design with overhead valves produces maximum operating economy. Four cylinder, direct drive unit weighs 837 lbs. and 6 cylinder, 1057 lbs.

●

LISTER-BLACKSTONE, INC.
42-32 21st ST.
LONG ISLAND CITY 1, N. Y.

HB2M

Air cooled 2 cylinder in line diesel. Develops 24 HP at 2000 rpm. Compression ratio 12:1. Available with or without reduction gear, ratios 2:1 and 3:1. Height, 35¼", length, 44". Weighs 670 lbs., with reduction gear, 750 lbs.

HB3M

Air cooled 3 cylinder in line diesel. Develops 36 HP at 2000 rpm. Compression ratio 17:1. Available with or without reduction gear, ratios 2:1 and 3:1. Height, 35¼", length, 50". Weighs 760 lbs., with reduction gear, 840 lbs.

We've given new LIFE, new QUALITY to reliable

MERRIMAN FITTINGS...

TURNBUCKLES AND TOGGLES

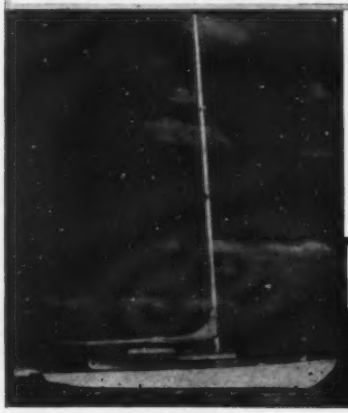
- All sizes up to ⅝" now forged
- New, exclusive, rounded, non-snagging pins
- New, super strength

GENOA SLIDES

- New, snap action plunger pin
- Longer slide to increase strength
- Strengthened eye

DECK PLATES

- New, super strength material
- New, refined design for greater strength



New ALUMINUM SPARS

- Complete line for racing yachts
- All stainless steel tangs included
- 26, 30, 40, 48, 52 and 60 foot sizes
- Made of extruded and tapered aluminum

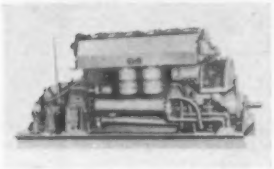
See us at the New York Boat Show—Booth C-179

MERRIMAN
185 Amory Street, Boston, Mass.

GOOSENECKS

- Improved design
- Longer slide to reduce friction
- Radius of swing increased to allow full 180° arc
- Strengthened boom socket

MURPHY DIESEL
5317 W. BURNHAM ST.
MILWAUKEE 14, WIS.

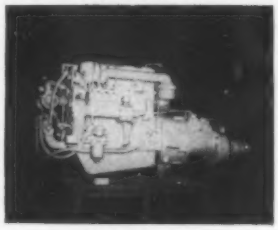


MODEL CBD-243
Murphy Diesel marine propulsion engines are built in 26 sizes from 96 to 243 HP. Model CBD-243 is shown. Available with a selection of reverse and reduction gears, and a wide range of front-end power takeoffs.

ORENDA INDUSTRIAL INC.
34-14 58TH ST.
WOODSIDE 77, L. I., N. Y.

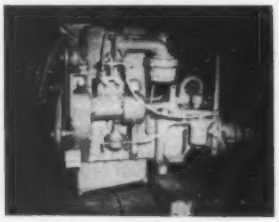
INBOARD ENGINES
Line of engines offered includes the range manufactured by the associate company, Petters Ltd., developing 3, 6, 12 and 15 HP, suitable for stationary, mobile, marine auxiliary and marine propulsion applications. Complete range of AC and DC generating sets developing 1½ KW, 3 KW, 6½ KW and 9 KW is manufactured by Orenda utilizing the Petter engine, and these units are specifically designed for both marine and industrial applications. Custom-built units are available, and can be produced with heat exchangers, water circulating pumps, bilge pumps and compressors. Range of spring-type isolators can also be incorporated complete with retainers for marine installation. Company has also developed a range of compressor sets specifically for marine applications and off-shore drilling rigs driven by the Petter marine diesel engines.

R. H. SHEPPARD CO.
101 PHILA. ST.
HANOVER, PA.

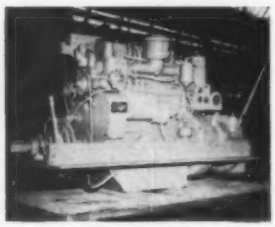


MODEL 19B
Model 19B has 4 cylinders, 3½" bore, 4" stroke and 153.6" displacement. Total price is $2401.50, including hydraulic 2:1 forward-reverse gear and standard instrument panel. Optional equipment is available on this 22 to 1 compression ratio diesel.

MODEL 17B
Two cylinders with 3½" bore, 4" stroke and 76.8" displacement, Model 17B is priced at



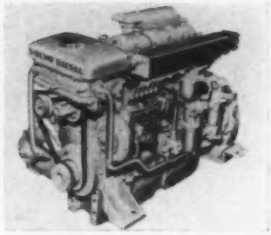
$1747.50 FOB, including marine panel with tachometer and direct drive forward and reverse gear.



MODEL 16B
This husky diesel engine has 4 cylinders, 4½" bore, 5" stroke, 319" displacement and is priced at $3465.75, including forward and reverse 2:1 mechanical gear and front power take off. All Sheppard marine diesels have optional equipment available.

VOLVO IMPORT CO.
INGLEWOOD CLIFFS, N. J.

VOLVO-PENTA MD-47
The MD-47 of 82 HP is ideal for twin installations for



pleasure craft. It is a lightweight direct injection 6-cylinder diesel, quiet running and smokeless and weighs 1,650 lbs. with reverse-reduction gear. Volvo diesels range from a single cylinder of 11 HP to a 6-cylinder turbo-charged model of 185 HP.

VOLVO-PENTA MD-1
Ideal for auxiliary power or for diesel economy in smaller craft. Engine is 4-stroke, direct injection diesel that develops 5 HP at 2,000 rpm, with 13x11" propeller at 1070 gear. Available with hand or electric starter.

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ALUMINUM **AERO-CRAFT** FIBERGLAS
35 MODELS from $129.00
CRUISERS . . . RUNABOUTS . . . FISHING BOATS . . . CANOES . . . DINGHIES

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15' Javelin Sportster
18' Adventurer Cruiser

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CONVERSIONS

Chevrolet V8

FOR FORD • MERCURY • EDSEL
LINCOLN • JEEP • CHEVROLET V8
The most complete selection of marine conversions from 40 to 400 h.p. Sold and serviced by ECON-O-POWER dealers throughout the U.S. Openings for a few qualified distributors.

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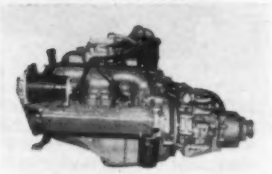
ENGINE CONVERSIONS

●

BARR MARINE PRODUCTS CO.
2700 E. CASTOR AVE.
PHILADELPHIA 34, PA.



1960 AUTO CONVERSIONS

Barr offers conversion kits for almost every new 1960 automobile engine made. A few of the engine kits include the Ford 6-cylinder OHV and Capitol EF200 direct drive reverse gear; the Oldsmobile 315 HP V-8 engine with Warner Velvet Drive reverse and reduction gear; and the Chevrolet 348 cu. in. V-8 engine with Warner Velvet Drive reverse and reduction gear.

●

FEDERAL MARINE MOTORS CO.
9011-13 COTTAGE GROVE AVE.
CHICAGO 19, ILL.

MARINE CONVERSION KITS

Marine conversion kits are available for Chevrolet, Cadillac, Oldsmobile, Pontiac, Ford, Mercury, Lincoln and Willys engines. They are complete with all necessary parts, tubing, nuts and bolts. Major parts of kits include ball-bearing marine water pumps with rubber impellers, water-jacketed manifolds cast with built-in baffle, thermostatic control, both manual and hydraulic marine transmissions complete with adaptors for all engines, and all equipment is designed for salt water use. Opposite rotation for twin installations is available in reduction drive models.

●

LEHMAN MFG. CO.
972 BROAD ST.
NEWARK 2, N. J.

ENGINE CONVERSIONS—CHEVROLET V-8

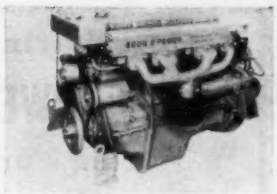
Converts to a compact, light, rugged and dependable marine power plant. The "Corvette" model with two 4-barrel carburetors develops 245 HP at 5000 RPM. With single 4-barrel carburetion it develops 220 HP at 4800. A single 2-barrel carburetor engine is available which gives 185 HP at 4600 RPM. Kits are adaptable to any of these engine models. Both hydraulic and manual type reverse gears available with reduction ratios up to 3:1. Price, $165.

FORD 4 CYLINDER OHV MODEL

Available in a 134 cu. in. model for heavy duty and work boat use. This model when rotating 2800 RPM develops 48 HP. A 172 cu. in. model develops 61 HP at 2800 RPM. Manual and hydraulic reverse gears with various reductions available. Conversions also offered for the earlier L-Head Ford 4 cylinder tractor engine. Price, $110.

FORD THUNDERBIRD & MERCURY V-8

Available in a variety of piston displacements, but have same physical dimensions and approximate weights. Maximum horsepowers of 132 to 255 HP. Models with same features offered for Lincoln engines up to 300 HP. Conversions also available for all L-head engines, 1932 to 1953. Manual and hydraulic reverse and reduction gears (ratios up to 3:1) available for all engines. Price, $170.



4 & 6 CYLINDER FORD

A conversion kit for the English built Ford Diesel. Engine develops 96 HP at 2250 RPM from a displacement of 330 cu. in. Features include fresh water cooling throughout including exhaust manifold, 12 volt electrical system for faster cold weather starting, replaceable wet type cylinder liners, etc. Universal availability of parts. Reverse gears available in manual or hydraulic types, both right and left hand rotations, with reduction ratios up to 4:1. The 4 cylinder model develops 60 HP at 2250 RPM from a displacement of 220 cu. in., and in design is almost identical to the 6 cylinder model already described.

LINCOLN, MERCURY, & EDSEL V8

The Mercury "Super-Marauder" develops 400 HP at 4800 RPM and has a piston displacement of 430 cu. in. It is the largest of the Lehman engines. The Lincoln gives 375 HP with the same displace-

"I BOUGHT MY AIR-BUOY® TWO TRAILERS TOO LATE!"

says Jack D. Patten, Denver, Colorado. "I wore out two trailers on one boat before buying an Air-buoy. I'll never buy another brand again. The Air-buoy tracks properly at any speed and gives support and protection like no other trailer—yet loads and unloads easily."

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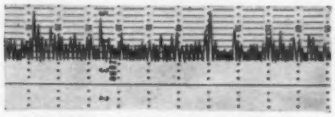
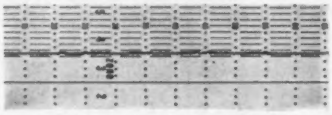


Steel spring trailers transmit road shock



Air-buoy trailers dampen road shock

AIR-BUOY

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Division of The Firestone Tire & Rubber Co.

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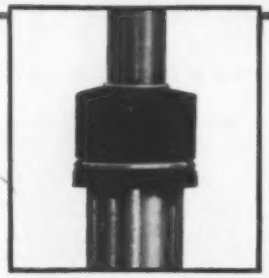
solve problem of excessive oil consumption past valves in overhead valve engines!

Be sure of top marine engine performance—When re-ringing or a valve job is performed, specify Perfect Circle Valve Seals.



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2-in-1 Chrome Sets

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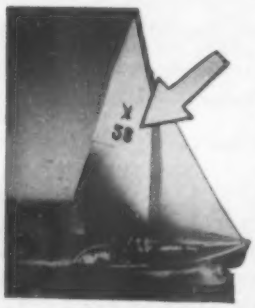

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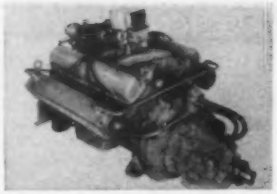


ment. All models have large oversize exhaust passages to prevent back pressure, long life water pump, and "Velvet Drive" hydraulic reverse and reduction gears (ratios of up to 4:1 available). The Edsel has a maximum HP of 345. Price (all models), $195.

●

OSCO MOTORS CORP.
PHILADELPHIA, PENNA.

OSCO-FORD 6130

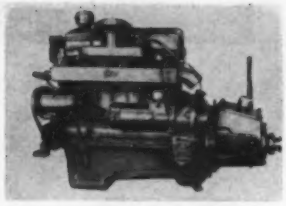
85 HP at 2800 rpm, using 5.6 gallons per hour. 142 HP at 4000 rpm, using 8.7 gallons per hour. 6 cylinder in-line engine has 7.8:1 compression ratio and piston displacement of 223 c.i. Available direct drive or reduction gear ratios of 1.5:1, 2:1 and 3:1. Height, 29¾", length, 46¼" to 53¾", weight, 668 lbs.; with reduction gear, 699 to 748 lbs. Has overhead valves, "Circuit-Flo" preheating manifolding, unitized ball bearing water pump. Price, $1,041.80.

OSCO-FORD 8155

105 HP at 2800 rpm, using 6.6 gallons per hour, 160 HP at 4000 rpm, with fuel consumption of 9.9 gallons per hour. 8 cylinder V engine has compression ratio of 7.2:1 and piston displacement of 272 c.i. Direct drive or reduction gear ratios of 1.5:1, 2:1, 2.5:1 and 3:1. Height, 30⅛"; length, 42½" to 50⅛", weight 801 lbs., with reduction gear, 845 to 891 lbs. Features overhead valves, high ported "Circuit-Flo" preheating manifolding, hydraulic reversing gear optional, unitized single ball bearing water pump. Price, $1,183.

OSCO-FORD 4DF

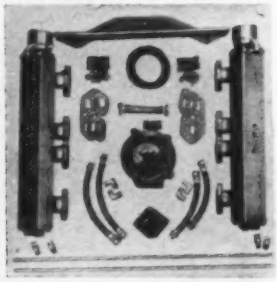
45 cruising HP at 2250 rpm with fuel consumption of 1.4



gallons per hour. Rated horsepower of 64 at 2400 rpm, with 2.2 gallons per hour fuel consumption. 4 cylinder in-line engine has compression ratio of 16:1 and piston displacement of 220 cu. in. Available direct drive or reduction gear, with reduction gear ratios of 1.5:1, 2:1, 2.5:1, 3:1 and 4:1. Weight is 769 lbs., weight with reduction gear, 779-1056 lbs. Height, 34⅞", length, 44 to 51⅞". Features include overhead valves; integrated fresh water cooling system; hydraulic reversing gear and opposed rotation optional. Price, $2,032.25.

OSCO-FORD 6DF

Delivers 65 HP at 2000 rpm, using 2.3 gallons per hour, and rated 96 HP at 2250 rpm, using 3.4 gallons per hour. Height, 34⅞"; length, 52" to 59⅞"; weight, 869 lbs., weight with reduction gear, 789-1159 lbs. 6 cylinder in-line engine has 16:1 compression ratio and piston displacement of 330 cu. in. Available direct drive or reduction gear; reduction gear ratios of 1.5:1, 2:1, 2.5:1, 3:1 and 4:1. Features overhead valves, integrated fresh water cooling system, hydraulic reversing gear; opposed rotation optional. Price, $3,061.



OHV FORD V8 CONVERSION KIT

One of the many kits or parts assemblies for all popular Ford engines either L-head or overhead valve types. Parts may be purchased in kit form or individually. Price of complete average kit, $165.

●

VAC-U-MATIC CORP.
146 MOTT ST., OCEANSIDE, N. Y.

VAC-U-MATIC CONVERSION KITS

Kits complete with manifolds for marine conversions. Available for the 4 cylinder Ford tractor engine, $69.50; the Ford V8 110 HP engine, $119.50; and the Jeep engine, $39.50.

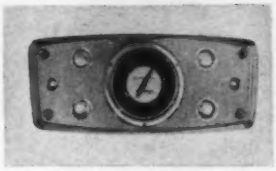
METERS & GAUGES

AIRGUIDE INST. CO.
2210 WABANSIA AVE.
CHICAGO 47, ILL.

MODEL 850 SPEEDOMETER SET
"Sea Speed" marine speedometer set with 45 mph surface mount, complete with tubing, hardware. Chrome plated case, 3" red and black dial with white details and pointer. Price, $9.95. Also available: model 851 for flush mounting at $9.95, and model 852-S panel set with holes for start and choke buttons and switches, priced at $15.

Nos. 701, 702, 703 SPEEDOMETERS
All have 3" dial face diameter. Speed ranges, 701, 0 to 30 mph, also 0 to 26 knots; 702, 0 to 45 mph, and 703, 0 to 75 mph. Each instrument contains Airguide Contralog* movement and dials calibrated to 1 mph. Guaranteed by manufacturer. Price, $8.95.

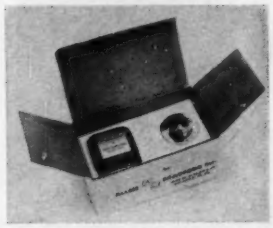
No. 707 DOLPHIN SPEEDOMETER
Dial face diameter, 3". Speed range is from 3 to 50 mph. This speedometer features illuminated dial and has Airguide Contralog* movement. It mounts on deck and has streamlined appearance. Guaranteed by manufacturer. Price, $15.00.



Nos. 708S & 708D SPEEDOMETER PANELS
Dial face diameters 3" in 10⅞" wide panels, both in a speed range from 0 to 45 mph. These instruments contain Airguide Contralog* movements. 708S has access for switches for single motor and lights, while 708D has access for switches for dual engines and lights. Prices, 708S, $15; 708D, $16.

No. 709 SPEEDOMETERS
Dial face diameter, 3". Speed range is from 0 to 45 mph. This instrument has back-connected flange mounting and contains Airguide Contralog* movement. Dial reads in 1 mph graduations. Guaranteed by manufacturer. Price, $8.95.
*Registered.

ALLEN-BRADFORD CO.
3181 N. ELSTON AVE.
CHICAGO, ILL.



MATCH-O-MATIC
Electronic unit automatically synchronizes engines, and consists of an indicator, comparator assembly and shielded cable which operates on principle of frequency comparison. It is claimed that synchronism of engines may be maintained within 1/10 of 1 per cent or closer, limited only by throttle linkage condition. Price, $29.95.

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1530 S. PRAIRIE AVE.
HAWTHORNE, CALIF.

4-WAY WARNING SYSTEM
The precision-built audio-visual 4-way warning system features a bell which operates in presence of excess heat or bilge water. Optional features are accessories which can be added to signal low oil pressure, overheating of engine or remote fire. Available in most voltages. Price, $59.50.

AQUA METER INSTRUMENT CORP.
445 EAGLE ROCK AVE.
ROSELAND, N. J.

AQUA-MATIC SPEEDOMETER IMPACT TUBE
Tube provides uninterrupted speedometer readings and accurate speed checks. Instrument "rides with the punch" over underwater obstacles, and sheds weeds. Unit pivots upward and to rear to ride over obstacles, then springs back automatically, and is non-fouling. Tube also releases forward if boat is backed over obstacles. Transom bracket is included.

AQUA METER SPEEDOMETERS
"Outboarder" series includes surface mount, flush mount and deck mount speedometer, each available in speed ranges of 35, 45, 55, and 65 mph. Aqua

Prettiest boat on the waterways

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. . . a rugged, seaworthy boat with a sleek, all-over lapstrake hull . . . gay, colorful deck, gunwales, motor well . . . all made of carefree, tough MOLDED FIBER GLASS. Cuts a mighty pretty swath in any kind of water!

Hull is molded under heat and high pressure in matched metal dies for extra strength . . . features a reverse lap between keel and chine for extra speed and stability. Seats are vinyl upholstered, foam cushioned . . . with shock-absorbing rubber torsion suspension.

"MFG" rides smoothly, planes beautifully, takes fast turns with a firm footing. Prices start at only $360 for 13-foot models; $655 for 15-footers; $940 for 17-footers; $1425 for 19-foot models. *Write today for literature.*

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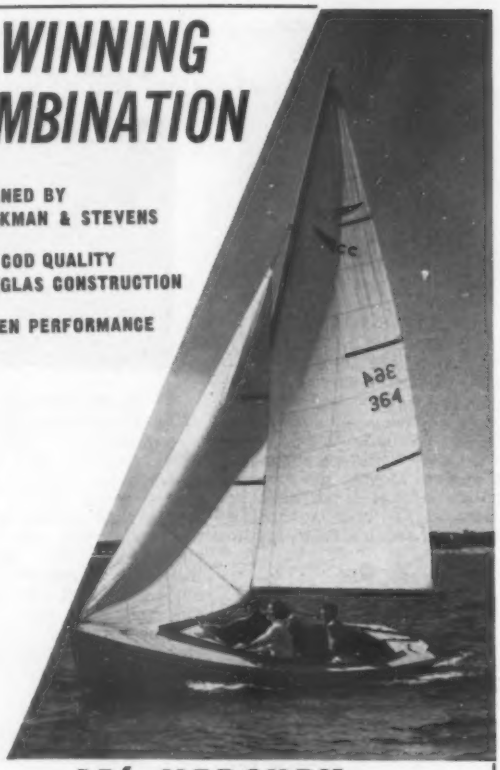

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Slow, SLOW trolling and better, all-around outboard boating are yours with the same prop. Set six other pitches for the ultimate in skiing, racing or cruising — in seconds, on the water and without tools.

NEW 1960 MODELS, for Mercury, Scott, West Bend, Elgin outboards, as well as Johnson, Evinrude, Buccaneer and Sea King 25 to 45 h.p. motors.

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CUSTOM • CRAFT Buffalo 7A, N. Y.

Panel Model features hooded speedometer mounting ring. Prices from $12.95 to $18.75.

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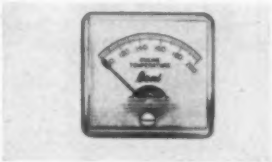
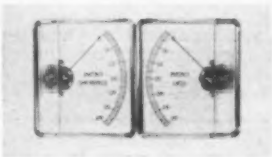
BONI CO.
BRISTOL, IND.



TEMPERATURE GAUGE
Direct reading, panel mounted engine temperature gauge is used with either outboard or inboard engines. Simple to install. Available in several models. Model 202 is priced at $15. Others from $8 to $20. Literature upon request.



TWIN TACHOMETER
Twin-Tach features carefully matched port and starboard indicators and balanced electrical circuitry for efficient engine synchronization. Boni Line includes speedometers, tachometers, temperature and fuel gauges, rudder angle indicators, and many others. Price of Twin-Tach ranges from $59.50 to $67.50 per set.

•

CROWELL DESIGNS, INC.
P. O. BOX 21, 2106 BRIDGE AVE.
POINT PLEASANT, N. J.

CROWELL DESIGNS

RUDDER ANGLE INDICATOR
Consists of receiving and sending units. Receiving unit matches standard marine instruments and is 2¼" in diameter with a heavily chrome-plated brass case. Sending unit is housed in bronze casting and is completely watertight. Available for single and dual stations. Price, $35 to $52.50 depending on voltage.

•

DIXSON PRODUCTS CO.
VASHON, WASH.

ELECTRIC TACHOMETER
An Electro Tach is an essential instrument for engine control and enables you to pinpoint most economical cruising rpm, select the right propeller combination, tune the engine to peak performance and economy and can be used for racing and predicted log racing. Prices start at $39.50 for the 0 to 8500 rpm Model 56, to $42.50 for the 0 to 6000 rpm models.

•

ERA METER CO.
3932 N. KILPATRICK AVE.
CHICAGO 41, ILL.

SYNCRO-SCOPE
For synchronization of twin marine engines. A tamper-proof electronic instrument that indicates, by means of a blinking light, exact degree of synchronization of engines. Sealed component is moisture proof and corrosion proof. No moving parts. Price, $34.50.

•

THOMAS G. FARIA CO.
13 JOYCE ST.
NIANTIC, CONN.

FARIA TACHOMETERS
Three outboard models fit all major brands of outboard motors. Model OB-2-4 fits all 2 and 4 cylinder motors. Model OB 6 fits all 3 and 6 cylinder motors. Price is $34.95. Inboard engine models are priced at $29.95.

•

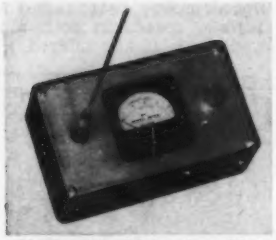
GERIN CORP.
AVON, N. J.

OIL CONDITION INDICATOR
Model DG oil condition indicator responds to changes in the oil of gas, gasoline and diesel engine due to contamination by dilution, water, running on dead filter and other conditions. Easily read when engine is running or stopped.

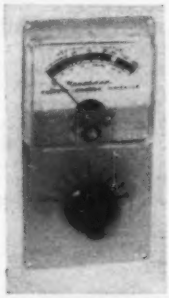
•

HEATH CO.
BENTON HARBOR, MICH.

RF POWER METER KIT
Heathkit Model PM-1, a device to sample the r.f. field in the vicinity of a transmitter. No batteries, electricity, or direct communication to transmitter required. Detects power drop off. Operates with transmitters of output frequency between 100 kc and 250 megacycles, regardless of power. Sensitivity is 0.3 v RMS full scale, with a control on the panel for



adjustment. Meter is a 20 ua. unit, mounted on a chrome plated brass panel. Measures 3¾" wide, 6¼" long, 2" deep. Price, $14.95.



CHARGE INDICATOR
Heathkit Model C1-1 battery charge indicator which replaces the hydrometer and eliminates working with acids inside the boat. Dimensions 2⅞" wide, 5 11/16" high, 2" deep. Operates on 6 and 12 volt systems using lead-acid batteries. Price, $16.95.

TACHOMETER KIT
For use in inboard and out-

board boats and cars. The TI-1 operates directly from engine's spark impulse. May be used on any spark ignited 2 or 4 cycle engine of any number of cylinders. Transistorized; operates on 6, 8, 12, 24, or 32 volt DC systems. Indicator reads rpm's from 0 to 6,000. Calibration control permits easy adjustment to engine type. Requires simple attachment of special clamp to ignition coil leads. Price, $25.95.

●

KRUEGER SENTRY GAUGE CO.
1056 W. MASON ST.
GREEN BAY, WIS.

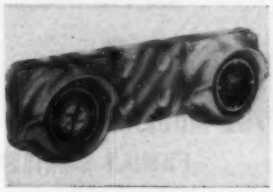
GAS TANK GAUGE
The Sentry 3-way accurate measure Tank Gauge is a combination tank vent, measuring gauge and filler cap. Can be read from any angle. Will fit most existing tanks up to 12". Also available is the Sentry At-A-Glance Tank Fill and Gauge Kit for deck installation.

●

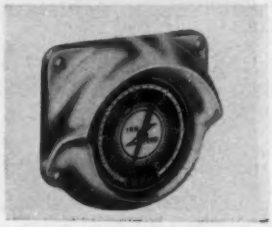
MUSKEGON OUTBOARD SPECIALTIES CO.
4386 AIRLINE RD.
MUSKEGON, MICH.

TRU-SPEED MODEL CL-150 CLOCK
Illuminated clock is wound by electrical impulse, operates on 12 volts and is set by front adjusting shaft. Price: $26.95, complete with wires and screws and 12 volt bulb.

TRU-SPEED MODEL T-500 TACHOMETER
Tachometer was designed especially for 2-cycle outboard motors and has impulse-reaction principle, counting shock waves from crankcase. Features include use with speeds to 6000 rpm, and ease of installation. Price: $34.50.



TRU-SPEED MODEL PN-103 INSTRUMENT PANEL
Complete instrument panel with compass and speedometer can be used with either 6 or 12 volts, and measures 3¾" x 12". Panel is illuminated, designed for surface mounting, is triple chrome-plated on heavy zinc base and has 4⅝" diameter knock-out buttons for switch installations. Price: $26.95.



TRU-SPEED MODEL S-206 SPEEDOMETER
Speedometer has hooded design, die-cast case triple chrome-plated, and 2½" translucent colored dial and pointer. All metal swing-out pitot tube with 4 plastic tubing clips. Instrument is for surface mounting, and available in three models, 0-35 mph; 5-45 mph, and 10-50 mph. Price: $11.60.

●

NAUTICAL DYNAMICS
5549 N. CLARK ST.
CHICAGO 40, ILL.

SPEED COMPARATOR
Speed comparator, imported from England is designed for racing boats from dinghies on up, and is mounted in bilges to indicate slightest speed change. Sensitivity adjustment

WIDE SELECTION

— 19 models ranging from 12′ to 18′ in length, 66″ to 86″ in beam

— 6 deck colors and 6 upholstery color-combinations, in your choice

Write for name of your nearest dealer. — Start at only **$595.00**

Crownline
INCORPORATED
Onarga, Illinois

COMMODORE Boats Inc.

P. O. Box B-1466 New Bern, North Carolina

23′ SEA ROVER

QUALITY
ELEGANCE
PRICE

THE MODERN FAMILY CRUISER

FOR DETAILS WRITE COMMODORE BOATS, INC.

EXCLUSIVE

DISTRIBUTOR WANTED

An opportunity to make $100,000 this season with a quality product—at a low price you have never before seen.

Fabulous unsinkable, fiberglas 7′ onboard speed boat with a nylon geared turbo speed prop. Runs 2 hrs. on ½ gal. gas. Speeds to 18 mph. Costs $145 complete—retails at $299, rents $20 hr. Also twin screw race or ski boat costs $245 complete—retails at $499. Fabulous profits, no inventory required.

Areas assigned on "first come" basis. Wire or Call; CR 4-2875 or Write:

HONEY, INC. 407 COMMERCIAL CENTER BEVERLY HILLS 2, CALIF.

RADIO LICENSE & OPERATOR'S PERMIT HOLDER

Individual compartments of window-clear heavy acetate keep your Radiotelephone Station License and Operator's Permit together and convenient to your phone as required by regulations. Brass grommets at top make bulkhead mounting easy.

$1.00 Shipped Prepaid.

It's ready . . . the new 1960 edition of SKIPPER'S CHOICE. We'd like to send you a free copy of THE CROW'S-NEST catalog . . . 96 pages of unique and practical boating accessories.

the Crow's-nest

Dept. P120, 18 E. 40th St., New York 16, N. Y.

insures responsive control under any sea conditions. Price, $12.

SINKO MFG. & TOOL CO.
7310 W. WILSON AVE.
CHICAGO 31, ILL.

SEA GUARD INSPECTOR
Aviation-type boat air speedometer gives readings of relative air speeds from 0 to 50 mph. Unit mounts to deck forward of windshield, is constructed of plexiglass and surrounded with chrome trim. Price, $5.95.

SMITHS INDUSTRIAL INSTRUMENTS, LTD.
FREDERICK GOERTZ, LTD.
VANCOUVER, B. C.

SMITHS SPEEDOMETERS
Models give dual readings in knots and mph, and are complete with tubing and Pitot head. All have 3″ dial face diameters. Available ranges include 0 to 10, 0 to 35, 0 to 45 and 0 to 70 knots (and mph equivalent).

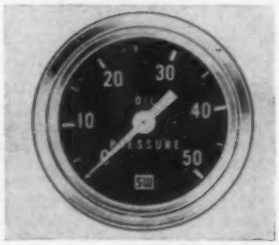
SPEEDOMETER SERVICE CO., INC.
151 FOREST ST.
MONTCLAIR, N.J.

TACHOMETER CABLE
Cables are plastic coated and water- and grease-proof. Comdraspeed" marine speedompany also manufactures "Hyeters.

STEWART-WARNER CORP.
1826 DIVERSEY PKWY.
CHICAGO 14, ILL.

ELECTRIC TACHOMETERS
The 100 Series Electric Tachometers are for 4, 6 and 8 cylinder engines, with 0-5000, 0-6000 and 0-8000 rpm face dial scales. Face dial is black, with white numerals and pointer and has indirect lighting. Only one wire connection between distributor and transmitter is required to operate the transmitter. A Marine Speedometer, calibrated to register speeds in both mph and knots, is also offered.

MARINE SPEEDOMETERS
Speedometers are available in two styles; with 2-19/32″ and 3-11/32″ diameter cases, with 0 to 40 mph and 0 to 60 mph dial ranges. Dials have black and white and "Twin-Blue" faces, and features include chrome bezels, indirect lighting and brackets for panel mounting.



ENGINE GAUGES
Instruments have 2-1/16″ diameter brass cases, with pressure, temperature, vacuum and fuel level gauges offered. A choice of mechanical or electric mechanisms is offered. Features include black and white and "Twin-Blue" face dials, chrome bezels, indirect lighting and brackets for panel mounting. Ammeters are also available.

INSTRUMENT PANELS
Complete engine instrument panels (from stock or made to order) are available with gauges, tachometer, ammeter, etc.

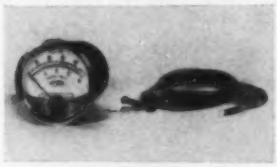
SYNCHRO-MASTER CO.
15 LANTERN LANE
BARRINGTON, R.I.

TWIN ENGINE SYNCHRONIZER
Synchro-Master is designed to provide lightning fast, accurate synchronization of the latest high speed marine engines turning in excess of 4,000 rpm. It provides single throttle control for cruising and independent control for starting and maneuvering. It eliminates vibration and exhaust heat. Manual gives detailed instructions for easy installation, operation and maintenance.

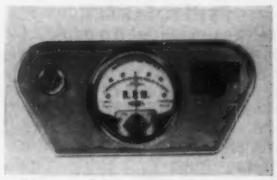
WESTBERG MFG. CO.
BOX 239, NAPA, CALIF.

3″ ELECTRIC TACHOMETERS
3″ tachometers are available in 4 series, all featuring 2%

accuracy, uniform scale divisions, dust and moisture seal and can be used with leads of any length. Instruments are available for 6 and 12 volt installations and for external magneto engines with no battery.



VOLTACK VOLTMETER-TACHOMETER
Dual instrument for 12 volt and negative ground engines tests engine rpm, battery voltage, cranking voltage and generator voltage. Unit can be mounted in panel or under the dash, and comes complete with installation and operating instructions. It is guaranteed accurate to 2%.



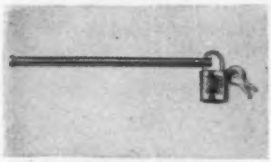
DUAL ELECTRIC TACHOMETERS
Dual tachometers are available for all dual engine cruisers. Instruments indicate speed of either engine and synchronize engines at center scale. Features include 2% accuracy, uniform scale division and dust and moisture seal. Marine panels for dual tachometers are also offered.

ENGINE ACCESSORIES & EQUIPMENT

AC SPARK PLUG
GENERAL MOTORS CORP.
FLINT 2, MICH.

"FIRE RING" MARINE SPARK PLUGS
Plugs feature buttress tops, heat-sealed construction, conductaseal, precision-rolled threads, deep-recessed hot tips, knurled centerwire, isovolt electrodes and rust-proofed shells.

ALLAN MARINE, INC.
325 DUFFY AVE.
HICKSVILLE, N. Y.



MOTOR LOCK
Rod is of sturdy black enamelled steel. Comes complete with brass lock and two keys. Economical insurance against possible loss of engine. Price, $2.95.

ALLCRAFT MFG. CO., INC.
CAMBRIDGE, MASS.

SEAFARER FUEL AND WATER TANKS
Fuel and water tanks are of solid monel and available in over 25 styles and sizes for outboard and inboard installation. Accessory items for use with tanks include fuel gauge quick-disconnect tank-opening and quick-disconnect fitting.

MUFFLER
Wet or dry type mufflers are available in a variety of models, with a ½" drain in wet mufflers only. Mufflers are of monel, with 6", 8" and 9" diameters, and in 8" to 30" lengths. Intake and outlet diameters range from 2" to 5".

ALLEN-BRADFORD CO.
3181 N. ELSTON AVE.
CHICAGO, ILL.

MATCH-O-MATIC
Electronic unit automatically synchronizes engines, and consists of an indicator, comparator assembly and shielded cable which operates on principle of frequency comparison. It is claimed that synchronism of engines may be maintained within 1/10 of 1 per cent or closer, limited only by throttle linkage condition. Price, $29.95.

AMALIE DIVISION,
L. SONNEBORN SONS, INC.
FRANKLIN, PA.

MEASURING OIL CAN
New motor oil can is diagrammed with a radius of angles, with each horizontal

See your dealer—or for literature, write:
Falcon® ALARM CO., INC.
Dept. E • 243 Broad Street • Summit, N. J.

PLAY IT SAFE! with Falcon

MARINE DISTRESS SIGNALS

A variety of signals that can be seen for miles to attract help when in trouble.

WATERPROOF PACKAGED

CONVENIENT

SAFE, EFFICIENT and INEXPENSIVE

A "must" aboard every boat, large and small —"just in case".

3 DIFFERENT KITS

* **F Kit**
3 Five-minute Red Flares $2.95
* **N Kit**
2 Red Flares, 1 Yellow Smoke Signal, 1 Dye Sea-Marker, 1 Day-Glo® Distress Flag $4.95
* **D Kit**
2 Yellow Smoke Signals, 2 Dye Sea-Markers, 1 Red Flare, 1 Day-Glo® Distress Flag $5.95

See your dealer—or for literature, write:

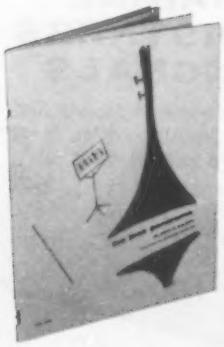
Falcon® ALARM CO., INC.
Dept. E • 243 Broad Street • Summit, N. J.

JAZZ!

a colorful 16-page history for only 15c

Here's an authoritative 16-page history of jazz that appeared recently in HiFi REVIEW (now HiFi/Stereo Review), the world's largest selling high fidelity magazine. While they last, you can order this fascinating reprint for just 15c a copy!

Written by John S. Wilson, noted jazz critic, this exciting look at the world of jazz takes you from Storyville in New Orleans to the Royal Garden Cafe in Chicago, from New York's Roseland to the West Coast school of cool music. You'll read how the **sound** of jazz has evolved and of the influence of a King Oliver or Bix Beiderbecke on today's musicians.



Whether you're a beginner or a jazz buff —or simply interested in a phase of Americana —you'll want a copy of this 16-page reprint on the jazz panorama. And it's yours for just 15c—with the handy coupon below! But the supply is limited, so rush your order today!

Ziff-Davis Publishing Company **H-260**
Box 525
Church Street Station, New York 8, New York

Please send me_____copy(ies) of the 16-page reprint on the history of jazz. I enclose 15c for each copy.

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angle position keyed to a specific quantity of oil being poured when can is tilted to assure correct amount of oil being added to known quantity of gasoline.

●

AMERICAN CHAIN & CABLE CO.
601 STEPHENSON BLDG.
DETROIT 2, MICH.

STEERMASTER

SteerMaster is a compact steering assembly which offers positive steering control at all times on both inboard and single or dual outboard installations. Consists of a steering gear to which is attached a Tru-Lay Push-Pull cable. The cable runs back to the rudder or outboard motor. Impossible to jam.

●

AMERICAN MAT CORP.
2316 ADAMS ST., TOLEDO, OHIO

OUTBOARD TANK MAT

A new noise eliminating, skidless rubber mat for outboard motor gas tanks. Designed to catch spilled gasoline and oil and protect boat finish. Colors to harmonize with boat. Also rubber mats and stair treads suitable for marine use.

●

AMERICAN TELEVISION AND RADIO CO.
ST. PAUL, MINN.

ATR INVERTER

Device changes voltage of boat's storage battery to 110 volts AC, and permits use of electric appliances intended for such power. Unit will supply up to 400 watts power with an operating efficiency of more than 75%.

●

APEX MARINE & EQUIPMENT CO.
SEATTLE, WASH.

BOAT SILENCER

9 models of Elastomuffle boat silencers are available for inboard and outboard installations. Model Mark X is designed for use on gas engines up to 100 HP using single exhaust lines and V8 gas engines up to 230 HP using twin exhaust lines and is priced at $29.95.

●

ATTWOOD BRASS
GRAND RAPIDS, MICH.

BATTERY CASE

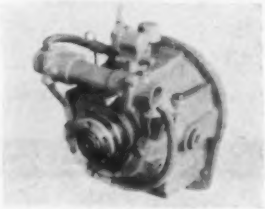
Reinforced polyethylene acid-resistant case fits batteries up to 10½"x7⅛"x8¼". Protects clothing and hull from battery acid, reduces fire hazard. Complete with acid resistant plastic carrying strap and chrome plated bronze loops for lashing case to boat. Weight 4 lbs.

RIVIERA STEERING WHEELS

Tenite wheel features tapered grips, chrome-plated mounting brackets and all nylon bearings. All mounting equipment and instructions are included. Price: $19.95.

●

AUTO ENGINE WORKS, INC.
331 N. HAMLINE AVE.
ST. PAUL 4, MINN.



HYDRAULIC DIRECT DRIVE

The Model 2 HD hydraulic direct drive gear is available with either standard or heavy duty clutch, tested at speeds up to 4,000 rpm. It incorporates the Capitol wet clutch system, case hardened bevel gears and independent lube system. Dry weight, about 160 lbs. Ideal for limited space. The Model 2 HD EC-8900 reverse and reduction gear is adaptable to engines having applied torque not exceeding 320 foot lbs. Dry weight, 230 lbs. The 2 HD series has been adaptable to 4 and 6 cylinder Ford Diesel, Cummins J series, and a number of other marine engines.

●

B-T COMPANY, INC.
121 N. BROADWAY
MILWAUKEE 2, WIS.

"TANK-TRAP"

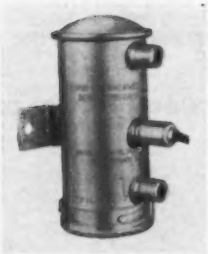
Remote fuel-tank holding clamps for use with outboard motors have snap-in, snap-out locks and are designed to fit vertical base rim of remote fuel tanks for most outboard motors including Evinrude, Johnson, Mercury, Champion, Oliver, Elgin, Buccaneer, West Bend and others. Unit is made of die-cast aluminum and has non-metallic, mar-proof jaw to prevent damage to tank finish. Price, $3.95 set of three.

●

BENDIX-ELMIRA
ECLIPSE MACHINE DIV.
BENDIX AVIATION CORP.
ELMIRA, N.Y.

ELECTRIC FUEL PUMP

The noted manufacturer of



electrical equipment offers this Bendix Electric Fuel Pump, priced at $26.90.

●

BLUE CROWN CORP.
P. O. BOX 159, DEFIANCE, OHIO

BLUE CROWN SPARK PLUGS
Especially suited for 2-cycle or outboard motors. Complete details in Blue Crown Spark Plug Specification Chart, Section #6, available from dealer or manufacturer.

●

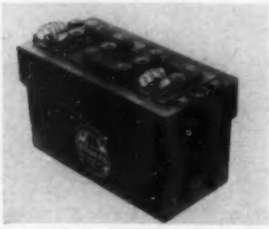
WILLIAM L. BONNELL CO., INC.
NEWMAN, GA.

"BON VOYAGE" DRIP PAN & TRANSOM PLATE
Combination drip pan and transom plate is of polished extruded aluminum and sold in 12" finished pieces that will fit motors from 5 hp up. Dripping gas or oil is trapped in removable pan attached to the transom plate, and any 7" x 11" x 1½" aluminum baking pan will fit the unit, which is drilled for easy attachment. Company also offers stainless steel hatch-cover mouldings, window or edge trims and vinyl and aluminum rub rails.

●

BOWERS BATTERY & SPARK PLUGS
P. O. BOX 1262, READING, PA.

ELECTRICAL EQUIPMENT
Storage batteries and spark plugs, for inboard and outboard service.



BOWERS BATTERIES
Battery line features −40° oxide for fast starting in all temperatures, corrosion-resisting grid metal, hard rubber cases, microphorous rubber and improved plastic separators and tough sealing compounds. Batteries available include 5 for outboards, 4 for 12-volt-starting and one for 6-volt-starting, and a complete line of batteries for small inboards and cabin cruisers, in all voltages from 6 to 120, with capacities up to 1200 ampere hours.

●

BRINKTUN, INC.
710 NORTH 4TH ST.,
MINNEAPOLIS, MINN.

MOTOR CARTS
Motor carts designed for easier handling of larger outboard motors up to and including 40 HP. Models available for all motor sizes from 35 to 50 HP.

●

BRISKO'S MILEAGE SAVER, INC.
MARINE DIVISION
BOX 38, OJIBWA, WIS.
MODEL 3BM

The new marine fuel pressure regulator and filter will reduce possible fire hazards on boats and delivers constant pressure under heavy engine demand. Model 3BM features a heavy duty self-cleaning filter screen, built around a powerful alnico magnet that removes metal particles from the fuel flow, assuring clean, pressure regulated fuel and eliminates iron oxide build-up on the carburetor needle seat and valve. Price $6.95 prepaid.

●

MARINE DIVISION
BURROUGHS MFG. CORP.
3550 TYBURN ST.
LOS ANGELES 65, CALIF.

BOATING ACCESSORIES
Matched set of accessories includes standard battery box, Dri-Pak tool box, transom pad, Dri-Seal Document holder and Hi-Glo bailer. Second set is available with same items, but with Heavy-Duty battery box in place of standard box. All items are molded of Burrite plastic.

SAILBOATS and KITS

14 feet G. P. Sloop

Family day sailer for 4, very stable, roomy. Sail area 102 sq. ft. Wt. 285 lbs., 5′ beam, draft 3′, Class racer.
Complete boat and sail only $775 F.O.B. Phila. Kits $295 F.O.B. Phila.

• • • • • •

Also builders of Moths, Wright Championship Penguin wood or Fiberglas, Jet 14, Pegasus. Stocks of spars, stainless steel rigging, swaging and fittings.

RETAIL and DEALER INQUIRIES WELCOME

BELL'S BOOK on HOME BOAT BUILDING

Contains much useful information plus details of our pre-fabricated boat parts for Dinghies, Sailboats, Cruisers, etc.

OVER 100 ILLUSTRATIONS

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Latest & greatest edition of Commodore's nationally famous buying reference book for boatowners. Features Nautical Apparel (incl. Foul Weather Gear). Furnishings, Boat & Navigation Equipment, Year-Round Gifts & Prizes, Gadgets, Uniforms, Insignia. Send 50¢ NOW for your copy. Purchase price deductible with your first order. USE THE COUPON. (Catalog FREE if you call for it in person at our showroom.)

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349 Broadway, New York 13, N. Y.
Enclosed find 50¢ for my copy of Commodore's king-size 136-page 1960 Fitting Out & Gift Catalog.

Name .....

Address .....

City or Town.....State.....

FOR THE TIME OF YOUR LIFE

...and for a lifetime

23′ LUHRS MORGAN SKIFF

A real safe family boat. Enjoy the comfort, security, quality and seaworthiness of this boat. Mahogany plank lapstrake hull, copper-fastened to oak ribs, guarantee peak engine performance.

NO FIXED DOWN PAYMENT
5 YEARS TO PAY

$3665 COMPLETE

"America's fastest-growing boat dealers"

Watts DeGarmo

443 Fire Island Avenue MOhawk 9-2822 Babylon, Long Island

BURGESS BATTERY CO.
DIVISION OF SERVEL, INC.
FREEPORT, ILL.

MODEL 4F5H

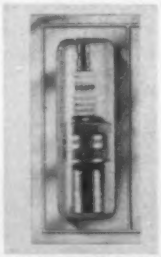
7½ volt battery is for emergency illumination and portable light. Weatherproof metal container is substantially leakproof. Unit weighs 7¾ lbs. Price: $6.45 each.

CARLING ELECTRIC
505 NEW PARK AVE. W.,
HARTFORD 10, CONN.

SWITCHES

Use to control all electrical circuits, searchlights, horns, pumps, electronic equipment, etc.

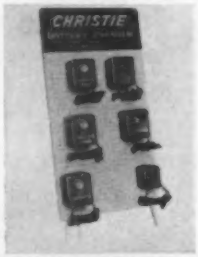
CHAMPION SPARK PLUG CO.
UPTON AVE., TOLEDO, OHIO



SPARK PLUGS

Two new spark plugs are being offered with colder heat range for marine and two-cycle engines. J-4J and J-4JM are designed to dissipate combustion chamber heat more rapidly, thus providing less electrode wear and longer life. They have a thread size of 14mm, ⅜″ reach and J gap electrode style. The J-4J is used as original equipment in Johnson, Evinrude and Gale Products engines.

CHRISTIE ELECTRIC CORP.
3410 W. 67th ST.
LOS ANGELES 43, CALIF.



BATTERY CHARGERS

6 or 12 volt and combination 6/12 volt models permit safe tapered overnight charging and feature automatic reset circuit breakers, 6′ power cord and charging leads with clips. One year guarantee accompanies all Christie chargers. Prices start at $15.15.

COLD SPRING PRODUCTS CO.
COLD SPRING, N. Y.

LUBRICATION KIT

The Lubrication Kit provides all tools needed for lubrication of inboard or outboard motor and fittings. High pressure pistol-type oiler dispenses drop or steady, fine stream of oil. Hand sized grease gun develops 3,000 psi. Made of unbreakable plastic. Price, $3.75.

COLUMBIAN BRONZE CORP.
FREEPORT, N.Y.

"MAKO" INBOARD PROPELLER

New "Mako" propeller has special design for high speed, high hp engines and is based on a transverse pitch distribution principle. It has extra wide blades with special curvature which are said to vitrually eliminate cavitation for 3600 to 5200 rpm, 150 hp and up engines. Unit is three-bladed and available in four diameters, 12½″, 13″, 13½″ and 14″. Prices: from $36.75 to $41.25.

OUTBOARD PROPELLERS

Line includes aluminum, electralloy bronze and a new metal, Superston. Customized designs are available for the 10, 15, 18, 25, 30, 35, 40, 50, 60 and 75 hp Johnson and Evinrude engines; 22, 25, 40 and 60 hp Scott engines; 12, 15, 22, 25, 35 and 60 hp Gale and Buccaneer engines; 35 hp Oliver, and 25, 40 and 60 hp Elgin engines.

CROWN PRODUCTS, INC.
4311 SHADY OAK ROAD
HOPKINS, MINN.

MOT-R-TOTER

The Mot-R-Toter enables one person to swing the largest outboard motor inside the boat for trailering and can be locked in any position for maintenance or mooring. Price, $79.95.

CROWELL DESIGNS, INC.
P. O. BOX 21, 2106 BRIDGE AVE.,
POINT PLEASANT, N. J.

FLOW VIEW STRAINER

Available in ¾″ and 1″ sizes.

For use as bilge or raw engine water strainer. Features include Monel basket, pyrex glass, and neoprene gaskets. Strainers do not fog up. Price, $16 to $18.

WATER PRESSURE SYSTEM
Air chamber is separated from water chamber by butyl rubber diaphragm and unit, which is completely self-contained; can be mounted above the fresh water tanks. Features include positive displacement, self-priming action, built-in monel strainer and a water-lubricated impeller. Standard household faucets can be used. Price $175.

●

DAKOLINE CHEMICAL CO.
357 ATLANTIC AVE.,
BROOKLYN 17, N. Y.

BILGE CLEANER
"Ship Ahoy Roll-A-Way" bilge cleaner, "Ship Ahoy Aqualube" pump and marine toilet lubricant, "Ship Ahoy Barfair 77" rot and mildew-proofer for sails and other cleaning and polishing materials.

●

MARINE PRODUCTS DIV.
DETROIT STAMPING CO.
340 MIDLAND AVE.
DETROIT 3, MICH.

MOTOR MOUNT
Unit automatically latches motor in place with registered, built-in high quality marine lock. Prevents motor theft and accidental motor loss. Fits all motors. Four hidden screws for maximum protection against theft. Heavy, marine chrome exterior. Internal parts Iridite-plated. Chromed brass screws furnished for mounting. Price, $14.95.

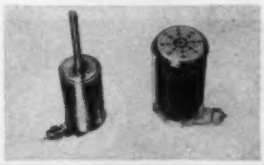
●

DEW-COATED LUBRICANTS
BOX 5755, CHICAGO 80, ILL.

OUTBOARD MOTOR OIL
Dew-Coated outboard motor oil will aid in performance and economy of your outboard engine. A 1 oz. and 4 oz. measuring pump dispenser for 5 gal. and barrel containers permit the correct mixture for 2 and 4 cycle engines. Prices start at 85 cents for one pint size.

●

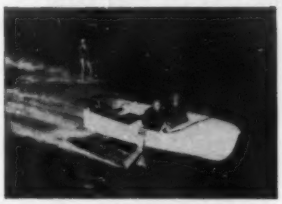
DIVAC DIVISION
ACME MACHINE WORKS
13025 CERISE
HAWTHORNE, CALIF.



BILGE & FUEL SWITCHES
Hermetically sealed, the two marine switches may be installed to warning lights, signal or automatically start a pump, or in the case of low-level fuel, to switch to auxiliary fuel tanks.

●

DYNAMIC DEVELOPMENTS, INC.
BABYLON, LONG ISLAND, N. Y.



SEA WINGS HYDROFOILS
All-aluminum hydrofoils lift powered craft clear of water and increase speed up to 30 per cent while using less fuel. Sold in kit form for about $390.

●

EDSON CORPORATION
334 S. WATER ST.
NEW BEDFORD, MASS.

PEDESTAL STEERER
Lightweight, "economy" pedestal steerer is designed for use in smaller "class" auxiliary sailboats. Is said to deliver up to 3 times as much power as the average tiller, yet retains "feel" of tiller steering. Accepts standard compasses, wheels and other steering accessories. Made of corrosion-resistant aluminum. Weight, 20 lbs. Price, $238. Write for catalog.

●

ELECTRO MARINE PRODUCTS
522 OAK RIDGE STA.
ROYAL OAK, MICH.

GENERATOR
Operated from power take-off of main engine, 32 volts (50 amps, 1875 watts) or 12 volts (100 amps, 1400 watts). Requires about 3 HP at full load. Hermetically sealed silicon diodes and silicon rectifiers give a more stable and consistent

NEW POWERFUL SPOTlite-HORN COMBINATION. Brilliant Sealed Beam SPOTlite in combination with resonant horn. Sealed Beam unit resists corrosion—keeps out water and dirt. 360° Horizontal swivel with 145° vertical swivel. Toggle switch with signaling facility.....**$18.75**

NEW PENNANT STAFF. Good looking new staff fits all ⅝" pennant staff sockets. Stays tight and rattle-free. Only.....**$1.75**

NEW RESONANT HORN. Toned to emit a pleasant sound, pitched to carry ample distances. Does not irritate fellow boatmen. Styled to match Delta's SPOTlite and BOWlite....**$7.95**

High quality plus the low, low prices of these fine Delta Lites and Horns make them exceptional values. They're made by Delta—the manufacturers of world-famous Delta Electric Lanterns for nearly half a century. All Delta marine products are made of solid brass with *heavy* Nickel and Chrome plating. They're fully guaranteed. Available in 6 or 12 volts.

Delta Lites meet Coast Guard optical requirements for Class A and Class 1 boats.

***New!* SMART STERNlite.** New, larger Fresnel lens in clear Plexiglas resists shock and breakage — and magnifies light! Model A2542-B has 24" staff and is adjustable down to 4". Only.....**$6.50**
Model A2542-A (20" staff).....**$6.35**
Model A2542-C (30" staff).....**$6.75**

***New!* MODERN BOWlite.** Fresnel-type red and green Plexiglas lenses give maximum strength, brilliance, and visibility. Has ⅝" pennant staff socket. Styled for modern boats. Low priced at....**$6.00**

***New!* BRILLIANT SPOTlite, without horn.** Sealed Beam and other lite features are identical to SPOTlite-Horn combination. Identical to appearance of SPOTlite-Horn without louvers in base. Only...**$12.50**

If your dealer doesn't carry them we will ship Post-Paid on receipt of order with remittance to cover.

All prices shown are list.

MADE IN U.S.A.

Delta LIGHTS THE WAY

DELTA ELECTRIC COMPANY, 341 West 33rd Street, MARION, INDIANA

UNCLE SAM BUYS ONLY THE BEST · GOV'T. LOSS IS YOUR GAIN

NEW U.S. NAVY BRONZE & MAHOGANY 18" STEERING
WHEEL
Made for Navy by
Chris-Craft
A heavy duty 3-spoke wheel that fits up to 1¾" shaft. Ideal for work or pleasure boat as side wheel, fly bridge or as replacement. Grey enamel finish.
Fraction of Gov't Cost
Shp. chg. $1 ext. ea.
$7.50

NEW U.S.N. Bu. of Ships AUTOMATIC WEATHERPROOF
FLASHER LIGHTS
Comp. with batteries, 25 ft. cord, spare bulbs, red, green and clear filters. Light with shade is 5½" diam., 5" deep. Has bracket for mounting on post. Battery and flasher case is 7½" long, 7½" deep, 3" wide, with 2 brackets. Ideal for: docks, boatyards, channels, construction and road signals.
Cost Gov't $100.00 ea.
$11.50 Shp. chg. $1.00 ext. ea.

U.S. AIR FORCE LIGHT-WEIGHT 6 GAL. ALUMINUM
WATER COOLER
Comes complete with chrome faucet, water-tight lid, carry handles and tie down loops. Sanitary, carry water, beverages, food, etc. 26" high, 7½" sq. Weighs 6 lbs. empty.
Fraction of Gov't Cost
Ship. charge $1.25 ext. ea.
$8.75

U.S. Army Air Force Model #A-10-A
AIRCRAFT BUBBLE SEXTANTS
Comp. in Case with Spare Parts & Batteries
A precision navigation instrument, manufactured by "Fairchild" to gov't specifications. Reads in degrees and minutes. Has electric timer lights and averaging trigger and discs. Apparently unused.
Ideal for
• AIRCRAFT
• SMALL BOATS
• INSTRUCTORS
Cost Gov't $335.00
$15.00 Post Paid

Unused U. S. Army Lamp Assemblies —Clear Plexiglass Lens
Weatherproof Swivel Base Ideal for Yacht Basins•Docks•Marine • Driveways• Estates• Farm Houses • Barns • Churches • Picnic Grounds• Patios• Bar-B-Ques.
2 for $3.00
$1.75 Shp. chg. 25c ea.
Set of 14 Lamps with Portable Trunk
Includes 12 bulbs plus one yellow & green—115 volts. Ideal for Outdoor parties • Church Bazaars & Carnivals • Playgrounds.
Cost Gov't $73.00
$14.50 Shp. Chg. Coll.

UNUSED U. S. NAVY
BILGE PUMP
3 Ft. or 9 Ft.
Galvanized steel with long wood handle, leather plunger and foot valve. Has many uses, draining boats, basements, pools, ditches, etc.
Fraction of Cost
Shp. chg. 50c
$4.50

LESS THAN 1 CENT A FOOT
⅛" 12 Strand 1050 lb. Test
TULA FIBRE ROPE
Sold in coils of 1100 ft. Only. Wgt. 47 lbs.
• Boats • Farms
• Nurseries
• Industrial
$10.00 Exp. Chg. Coll.

New British Imported Black Rubber, Heavy Duty Reinforced
HIP BOOTS
$8.75 pair
Shp. Chg. 75c Ext.
Top quality black rubber uppers reinforced with extra layers of rubbers at wear and strain points. All vulcanized seams, slip resistant soles and heels, has adjustable belt straps. Sizes 8-12. Limited quantity.

SHANNON
218 N. 22nd St., Philadelphia 3, Pa.
Oldest Equipment House in Phila.
Include Ship. Chg. with Remittance
Chg. Applies up to 300 Mi. of Phila.

BOATING CLUBS!

Be sure to receive special announcements of interest to members of your club.
Print the name and address of your club and your secretary's name on a government postcard and mail today to:

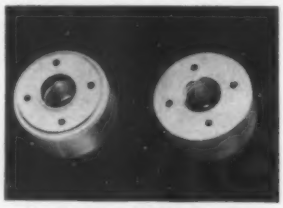
POPULAR BOATING
Club Department
One Park Ave.
New York 16, N. Y.

New for '60! All Aluminum!

...built for
SPEED
SAFETY
SEAWORTHINESS
15 FOOT Dolphin SPORTABOUT

Patented hull, aircraft-type construction assure fast, dependable performance. Trimmed in decorator colors. Dealerships open. Write for catalog.
Barnes Boat Company, 1 Mitchell Drive, Manchester, Conn.

rate of charge and offer less chance of failure or breakdown. Alternator system available by itself or in combination with shore power converter 12 volts 20 amps, 32 volts 10 amps or 32 volts 20 amps.



DUAL-FLEX ENGINE COUPLING

Dual-Flex coupling reduces or eliminates transmission noise and vibration between engine and shaft as well as electrically isolating one from the other. Coupling will absorb 3 degrees continuous running misalignment. Price $30.00.

REFRIGERATION UNIT

Complete unit to convert any ice box (up to 15 cu. ft.) into automatic electric refrigeration. Any DC voltage and 110 volts AC. 12 volts DC draws 4 to 5 amps per hour and runs 9 to 12 minutes per hour. Can be installed in engine room. Unit contains ¼ HP twin cylinder compressor, appropriate size evaporator, enclosed AC or DC motor and controls. Price, from $218.66 to $290.

●

ELECTRONIC INSTRUMENTS CO.
3300 NORTHERN BLVD.
LONG ISLAND CITY 1, N. Y.

MODEL 1060

Model 1060 Extra-Filtered 6-volt and 12-volt battery eliminator and charger incorporates a heavy-duty choke and an additional filter capacitor to provide extra filtering. Dual range ohmmeter permits more accurate current readings.

●

EMEROL MFG. CO., INC.
331 N. MAIN ST.
PORT CHESTER, N. Y.

MARVEL ENG-OIL

Marvel Outboard Eng-Oil is a new product formulated to provide superior, non-detergent lubrication during high speed, high-heat operation. Its high film strength reduces wear on internal engine parts and cuts spark plug fouling.

●

ENGELHARD INDUSTRIES
EAST NEWARK, NEW JERSEY

CAPAC ANTI-CORROSION DEVICE

The "Capac" system for anti-corrosive protection of steel hulls, utilizes a new concept developed at the Corrosion Testing Center of the International Nickel Co. Current from the ship's batteries is used to neutralize stray galvanic currents generated by dissimilar metals in a sea water electrolyte. The unit drains only fractional amperes, adjusts automatically to different service requirements, and is maintenance free.

●

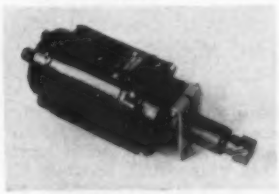
ENSIN PRODUCTS DIV.
MINIT SPRAY CORP.
P.O. BOX 189
DES PLAINES, ILL.

ENSIN GASSER

Long-cruise auxiliary fuel tank is of heavy-gauge steel with rolled edges and internal anti-surge baffle, safety pressure-vent cap and brass fuel line fitting. Capacity is 12 gallons plus, and size of tank is 19"x 18"x11". Available with either single or double hosefitting. Price, $31.95.

●

EVANS INDUSTRIES,
MARINE DIVISION
1276 E. COLORADO
PASADENA, CALIF.



BOAT MAGNETO

Magneto ignition which needs no generator or battery is for 4 cylinder inboard engines, and is a direct replacement for any Lucas ignition system and can be adapted to any 4 cylinder engine distributor drive. Features include hot spark at all speeds and no points or condenser to replace. Price: $29.95.

●

HYDRAULIC THROTTLE LINKAGE

Hydraulic throttle linkage for inboard engines eliminates cable or mechanical linkage and is suitable for use with either foot pedal or hand control. Linkage consists of master cylinder and slave cylinder connected by fabric-covered neoprene tubing. Price: $29.95, including 4' of tubing. Additional lengths available at $1 per ft.

●

EXIDE DIV., ELECTRIC
STORAGE BATTERY CO.
P.O. BOX 6266
CLEVELAND 1, OHIO

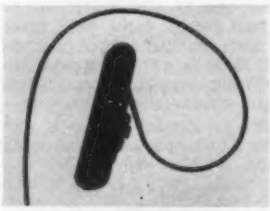
POWER PACK

Combined battery carrying case and charger, the Power Pack has a built-in charger that can be plugged into 110

A.C. line to recharge the battery. Case clamps to the deck and has a tool compartment. A convenience outlet in the side of the case, designed for 6 and 12 volt outboard motors, provides power for all types of remote outdoor uses. Suggested retail price of Model EP 6-12, $29.75.

●

FEDERAL MARINE MOTORS CO.
9011-13 COTTAGE GROVE AVE.
CHICAGO 19, ILL.

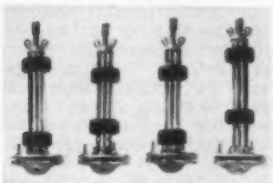


FEDERAL FOOT THROTTLE
Throttle is designed for inboard runabouts and has balanced action, with foot pedal pivoted in the center and friction of cable maintaining throttle setting. Toe pressure accelerates speed, heel pressure reduces it. Complete package includes foot pedal, cable, clamps and necessary carburetor fittings.

●

W. G. FEIK
1809 AFTON
HOUSTON 24, TEXAS

BAITWELL CIRCULATOR
Baitwell circulator operates in closed, circulating, still and



cleaning positions, with positions obtained by movement of neoprene O-rings. Holes in brass caps control amount of water flow and cap itself has gasket in upper portion, which closes off inlet tube when closed. Price, $9.

●

R. W. FERNSTRUM & CO.
MENOMINEE, MICH.

GRIDCOOLER
Cooler provides for fresh water engine cooling. It is a heat exchanger of the outboard or hull type. It eliminates sand and silt deposits in engine water jackets and protects engines from corrosion and deposits in salt water operation.

●

FINSON PRODUCTS, INC.
2934 SUNNYSIDE AVE.
CHICAGO 25, ILL.

AUTOMATIC PITOT TUBE
The "Hydro-Set" Pitot Tube

utilizes the paravane principle for a new approach to Pitot Tube design and construction. The Hydrofoil automatically sets the Pitot Tube to the proper running position. The force of the water passing the hydrofoil exerts a downward pressure thereby holding it in the correct position for exact and constant speed readings. Construction permits freedom of movement to prevent damage.

●

FOX RIVER MFG. CO.
422 MARION RD., OSHKOSH, WIS.

UNITROL CONTROL
One hand does it all with Unitrol. The lever is pushed forward to accelerate the boat and reverse to back up. Features a positive neutral safety zone. Cam-action automatically shifts the motor.

●

FOX PRODUCTS CO.
4720 N. 18TH ST.
PHILADELPHIA 41, PA.

SUPERCHARGER
The Supercharger will handle standard 6 and 12 volt batteries and can be used for 8, 16 and 24 volt batteries. Pushbutton and lever switch permits 12 different charging rates. Charger is cooled by downdraft, sealed-lubricant lifetime fan motor. Fox offers an entire line of battery servicing equipment.

●

GENERAL AUTOMOTIVE SPECIALTY CO.
10-40—45TH AVE.
LONG ISLAND CITY 1, N.Y.

MARINE SWITCHES
The marine switches are of all brass construction made specifically for the boating industry. They are push-pull, ignition, toggle, push button switches and trailer connectors.

●

GENERAL FILTERS, INC.
NOVI, MICH.

GENERAL FILTER
For filtration of gasoline entering marine engine.

●

GERSTNER ELECTRONIC CONTROLS
254 12th AVE.
MINNEAPOLIS 15, MINN.

PUSHBUTTON SHIFT
The Gerstner Electronic push-

STAR PERFORMERS FOR '60
by BENDIX

NEW
TRANSISTORIZED RADIOTELEPHONES
Skipper 101-25 watt; 202A-42 watt; 303-65 watt. Tremendous performance for size and weight—lowest battery drain. Available with exclusive Tenna-Coupler for eliminating all underwater ground connections.

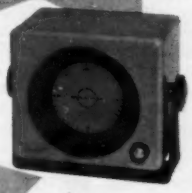
SKIPPER 101

SKIPPER 303

SKIPPER 202A

NEW
"DART" AUTOMATIC PILOT
For carefree, automatic steering for inboards/outboards to 35 feet. Mounts on transom or rudder post with modernly styled dial-your-course control unit—positive manual override.

NEW
DEPTH RECORDERS AND INDICATOR
DR-18/19 Depth recorders—60 fathom and 300 foot ranges respectively, each with sectional magnified charts. DI-5 Indicator—1 foot to over 240 foot range. Bright light neon flasher easily read in bright sunlight. Built-in transistorized power supply.

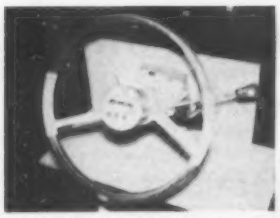


NEW
Multi-channel Monitoring Receiver
Portable Transistorized Direction Finder
Citizen's Band Transceiver

Visit the big Bendix booth at all major boat shows.

Bendix-Pacific
DIVISION OF BENDIX AVIATION CORPORATION
NORTH HOLLYWOOD, CALIFORNIA

★ AUTOMATIC PILOTS ★ DEPTH SOUNDERS
RADAR ★ DIRECTION FINDERS ★ RADIOTELEPHONES



button shift control is mounted in the hub of the steering wheel. Pushbutton assembly can also be mounted on the dash as a separate unit, bringing centralized fingertip steering to outboard and inboard cruising. Price $159.50 without cables. The Gerstner All-In-One boat control is a mechanical unit selling for $49.95 less cables.

●

GLEN METAL PRODUCTS CO.
BOX 101, WEST WARWICK, R. I.

LOCK-A-BOAT

Lock-a-boat provides a method of locking boats under all conditions, to a dock, a mooring, a trailer, or in any other situation. Can be used as a safety cable for outboard motors. It is made of stainless steel cable with a Lock-a-boat fitting at each end. Price for 3′ length with Lock-a-boat assembly on one end and yoke and rivet on the other is $9.75; 5′ length, $10.50. Price for 3′ length with Lock-a-boat fitting on both ends is $14.25; 5′ length, $14.98.

●

GRUNERT CO.
DRUM POINT RD., BOX 126
OSBORNVILLE, N.J.

MARINE BATTERY CHARGER

Charger may be plugged into any ordinary receptacle or permanently wired into boat's a.c. circuit. The a.c. side is protected with a 5 amp fuse and d.c. side with an automatic circuit breaker. Charging ranges from ¼ to 20 amperes per hour. Price, $89. Grunert also offers water cooled marine refrigeration units.

●

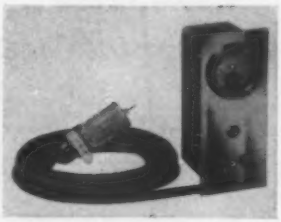
HAZARD HYDROFOIL, INC.
5440 E. BEVERLY BLVD.
LOS ANGELES 22, CALIF.

HYDROFOIL CONVERSION KIT

Kit will convert any outboard hull from 12′ to 16′ to hydrofoiling operation. Ready-to-bolt-on kit allows use of conventional steering wheel, and foils retract easily for beaching or trailering.

●

HEATH CO.
BENTON HARBOR, MICH.



FUEL VAPOR DETECTOR KIT

Heathkit Models FD-1-6 (6 v DC) and FD-1-12 (12 v DC), vapor detector with an indicator that mounts on or near instrument panel and a pilot light which shows when the indicator is working. A three-color "Safe-Dangerous" scale indicates whether the engine may be safely started. The detector is placed in the danger area and connected to the indicator by a heavy-duty neoprene-insulated cable, highly resistant to the effects of oil and gasoline. Kit includes a spare detector unit. Shpg. wt., 4 lbs. Price, $35.95.

●

HOLLEY MFG. CO.
WAVERLY, IOWA

PELLET-TYPE THERMOSTAT

Pellet-type thermostat is a positive action unit unaffected by pressure in the cooling system, and is furnished in a temperature setting of 145°. Thermostat, which replaces firm's previous bellows type unit, interchanges in present temperature control housing. Boat owners with manufacturer's bellows type on their engines can make replacement with new pellet type.

●

HUPP CORP.
7450 MELVILLE AVE.
DETROIT 17, MICH.

AHOY MARINE BLOWER

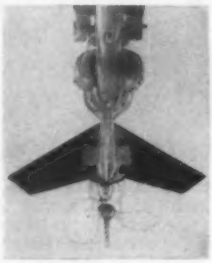
The Model 220 Ahoy Marine Blower has an aluminum non-sparking blower wheel with a capacity of 220 cfm. The motor is also non-sparking. Wt. only 6½ lbs., the blower runs off 6 or 12 volt power supplies. It is designed for exhausting dangerous gasoline fumes from bilge and engine room spaces, for removing cooking odors from the galley or ventilating the cabin quarters. Price, $29.95. A cabin fan for ventilating, cooling or windshield defogging is also available priced from $23.53 to $26.99.

ELECTROPILOT

Hand-held steering device can be used from any position on boat. Unit consists of two-way switch and motor control unit allowing remote control of boat's direction, and automatically locks steering position until changed. Device is available in kit form with universal mounting brackets, mounting template and steering arm. Price: $94.95 with hand control.

●

JAGIEL RESEARCH & DEVELOPMENT CO.
3106 ALGONQUIN PKWY.
TOLEDO 6, OHIO

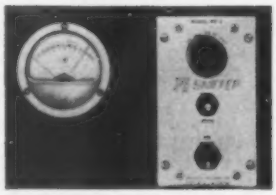


STABILIZER

The Jagiel stabilizer for outboard motors of 15 HP and over. Fits on the cavitation plate and eliminates pounding, vibration and cavitation. Increases power and planing. Under normal conditions boat can be turned around in its own length at full throttle, without capsizing. Price galvanized, $8.50 F.O.B. Toledo.

●

JOHNSON-WILLIAMS, INC.
P. O. BOX 307, STA. A.
PALO ALTO 7, CALIF.



"SNIFFER" GAS DETECTOR

Detector designed to reveal the presence of explosive fumes. Available in models with and without automatic alarm. Price, $64.50.

●

KAHLENBERG BROS. CO.
TWO RIVERS, WIS.

PROPELLERS

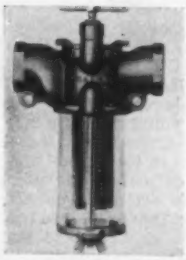
A complete line of constant and adjustable pitch propellers are offered for all types of boats. Kahlenberg also manufactures diesel engines, sound signals, steel propellers and other marine equipment.

●

KRAISSL CO.
299 WILLIAMS AVE.
HACKENSACK, N. J.

MARINE FUEL FILTERS

Kraissl Marine Fuel Filters feature easy installation, instant cleaning, extra large capacity, non-breaking sludge gage, separate sludge chamber, and are galvanized constructed with 120-mesh phosphor bronze wire cloth blasket reinforced with perforated brass. A duplex unit is offered with hand-fitted rotary valve with three positive settings. Price of model 72-72 is $20; of model 72-72D duplex, $60. Special filters and strainers are also available.



SEA-VIEW WATER STRAINERS

Kraissl strainers are manufactured with top section from bronze and bottom section from transparent plastic material. Standard strainer baskets are perforated brass. Duplex strainers are available with adjustable positioning collar which permits accurate location of rotor on its seat with proper clearances. Prices for the Class 73 Series Single Sea-View Strainers range from $19.50 to $81.00. Prices for the Sea-View Cooling Water Duplex Strainers range from $45 to $409.

●

LAFAYETTE SUPPLY CO.
WEST LAFAYETTE, OHIO

TRANSOM PADS

Line of pads includes models to fit motors up to and including 18 hp, and from 25 hp to 40 hp. Pads are constructed of double neoprene and phenolic plastic, and cushion both sides of transom. Prices: from $2.95 to $5.95.

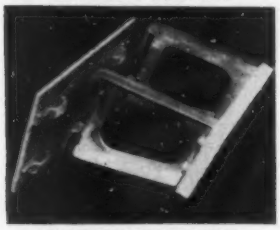
HELM-RITE

Designed to enable owner to mount the wheel at the proper position for maximum performance. May be easily mounted in any position on gunwale, port or starboard; eliminates necessity of center deck and provides clear passage from bow to stern. Aluminum construction, for any small craft. Price, $21.95. Other accessories: Aluminum tube boarding ladders, from $9.95 to $14.95.

LA MARCHE MFG. CO.
49 WOODRUFF AVE.
WAKEFIELD, R. I.

SUDDEN STARTER
Insures fast starting for all gasoline engines with 6 or 12 volt systems. Instead of one spark on each plug for each power stroke per cylinder, the Sudden-Starter provides a rapid stream of 10 to 40 sparks for each cylinder's power stroke.

MAGIC TOOLS, INC.
991 WILLIAMS ST.
SAN LEANDRO, CALIF.



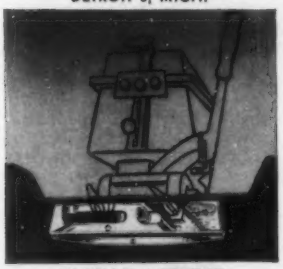
TROLLING MOUNT
Made of aluminum alloy, for motors to 6 HP. May be removed when not in use by just turning two thumb screws. Price, complete $16.50.

MAGNAFLO CO.
4132 MARKET ST., YOUNGSTOWN, O.
LIFETIME CHARGE
Chemical additive prevents sulphation, claimed to be the basic cause of battery failure. Dissolves and prevents lead sulphate formation. Price, $1.69.

MAGNA-KOLD CO.
P. O. BOX 2385
LOS ANGELES 28, CALIF.
MAGNA-KOLD MARINE REFRIGERATING UNITS
Unit is powered by use of boat's DC electrical system or storage battery through permanent disc magnets revolving in absolute synchronism. Unit is installed on ice boxes to convert them to mechanical refrigerators. Available are a ⅙ HP unit, and 1/15 HP unit, with Refrigerant 12 used in all units.

MARINE & POWER MOWER DIV., STITT IGNITION CO.
86 EAST FIRST AVE.
COLUMBUS 1, OHIO
OUTBOARD SPARK PLUGS
The heavy-duty SM-4 Stitt Marine outboard spark plug has a large nose design giving it long life and anti-fouling characteristics vital for easy starting and dependable marine engine operation. All SM-4 plugs are chrome-plated to prevent rust. Price, $1.89.

MARINE PRODUCTS DIV.
DETROIT STAMPING CO.
340 MIDLAND AVE.
DETROIT 3, MICH.



MOTOR MOUNT
Unit automatically latches motor in place with registered, built-in high quality marine lock. Prevents motor theft and accidental motor loss. Fits all motors. Four hidden screws for maximum protection against theft. Heavy, marine chrome exterior. Internal parts Iridite-plated. Chromed brass screws furnished for mounting. Price, $14.95.

MANNING, MAXWELL & MOORE, INC.
SHAW-BOX CRANE & HOIST DIV.
MUSKEGON, MICH.

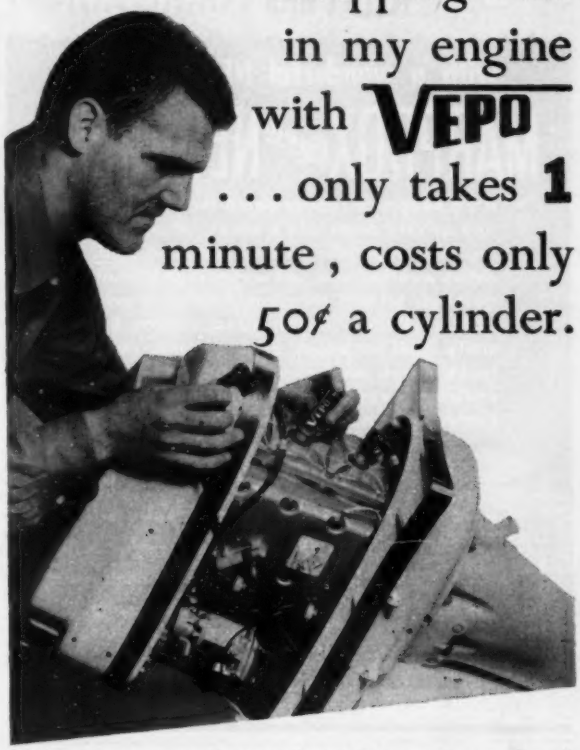
MOTOR SLINGS
These slings are made of Budgit yellow parachute nylon, double sewn for extra seam strength. Heavy duty lifting eyes are cadmium plated to prevent rust. Three types are made to fit popular outboard motors. Prices start at $15.50.

MARMAN DIV. AEROQUIP CORP.
11214 EXPOSITION BLVD.
LOS ANGELES 64, CALIF.
PIPE REPAIR CLAMP
The Heavy Duty Patchmaster pipe repair clamp is available in sizes from ½" through 8" and in widths of 3, 6, 9 and 12". The new lug design allows the pipe repair clamp to conform to the contour of the pipe under high torque without biting into the pipe. Patchmaster easily and quickly repairs pipe leaks, either emergency or permanent.

MARK MFG. CO.
RT. 2, BOX 970, TACOMA, WASH.
OUTBOARD FUEL TANK
Mounts overboard aft, forms an extended step-type planing surface and motor mount. Self-

Say, what are you doing?

Stopping rust in my engine with **VEPO** . . . only takes **1** minute, costs only 50¢ a cylinder.



VEPO is a new product engineered to prevent rust and corrosion in motors. This modern development prolongs the life of engines and complex machinery, without the necessity of using messy oils in reaching remote corners and recesses. A miracle chemical powder, **VEPO** is simply squeezed in where the spark plug is removed. There it creates a vapor which prevents rust in the cylinder, the vapors even passing the compression piston rings, in spite of the presence of moisture or oxygen. It's quick (only takes a minute per cylinder), easy, and economical.

Especially important to owners of seasonal equipment such as outboard motors, inboard motors, and power lawn mowers, etc., **VEPO** insures safe storage of engines, automotive parts, hunting and fishing cabinets, tackle boxes, bearings, tools, steel interiors, and gears until they are needed again.

Further rusting is prevented where rusting has already formed. So effective has this new chemical powder proved to be that the aircraft industry, tractor manufacturers, and many other manufacturers using internal combustion engines are now storing millions of dollars worth of equipment with this material. Meets Govt. military specifications for rust preventatives.

Sold at marinas, chain stores, etc. If your dealer cannot supply you, have him order your VEPO today.

WRITE FOR DETAILED INFORMATION.

ULLMAN DEVICES CORPORATION
Rte. 7, RIDGEFIELD, CONNECTICUT

STOP RUST and CORROSION

with a wonderful NEW product

MARPROX liquid NEOPRENE

It's a neoprene rubber liquid that brushes on and quickly cures into a tough, smooth coating that stops all rust and corrosion cold. It defies weather, sun, salt water, high humidity, gasoline, oil and abrasion. Applies to practically anything — metal, wood, canvas. Especially ideal for bilges, engine rooms, pumps, tanks, decks, hardware and trailers. Uses are endless. Saves many times its nominal cost. Comes in pints, quarts, gallons. Color, grey.

finest sealers sold

"MARPROX" products also include:

SEALER "900"—liquid rubber sealer

SEALER "800"—mastic rubber sealer

"LAKERFILL"—plastic putty and surfacer. 8 colors.

See your dealer, or write **MARINE PRODUCTS, INC.**
Oshkosh, Wisconsin

Mercury

16' SABRE **Speeds to 45 mph.**
The finest name in solid mahogany planked boats.
CRUISERS RUNABOUTS SKI BOATS
MERCURY BOAT CO. PIRU, CALIFORNIA

NOW BEING OFFERED

Most fabulous collection of ocean racing yacht pictures ever assembled. Sixteen 8½x 11 prints with art titles suitable for framing in a Presentation Portfolio **$5.75**

This is a must for every yachtsman's library. A collector's item from the matchless library of E. L. (Skip) Eveleth. Portrays pictorially the famous Gold Platers of mid-century ocean yacht racing.

CLASSIC PHOTOGRAPHS
P. O. Box 4746 Fort Lauderdale, Fla.

adjusting, self-sustaining, rubber mounted. Features removal of fuel from inside the boat, 2' longer planing surface, adjustment for different fuel loads, reduces motor noise and vibration. In three models for planing hulls from 12' to cabin cruisers. In following sizes: 37-gal. single engine; 64- and 84-gal. twin engine. Supports any hp capacity engine. Prices, 37 gal., $180; 65 gal., $239; 85 gal., $280.

●

MARTIN MARINE PRODUCTS
3864 S. KEDZIE AVE.
CHICAGO 32, ILL.

ENGINE COUPLING

The Master Marine Universal Joint is a precision-made marine coupling, accurately machined and balanced for long-life and trouble-free service. Used between propeller shaft and engine to absorb misalignment caused by structural distortion of the hull in a seaway. Available in 3 sizes; 4", 5" and 6" flange.

●

MERRIMAN BROTHERS, INC.
185 AMORY ST.
BOSTON 30, MASS.

STEERING CABLE ASSEMBLY

Stainless steel assembly includes strap, clamp and thimble for 3/16" plastic covered cable, with clamp design holding cable in position when being tightened. Company also offers stainless steel steering cable guides.

●

MILEMASTER, INC.
1550 E. 74TH PL.
CHICAGO 19, ILL.

REDIFIT KIT

Fuel line fittings and parts kit contains 38 fuel line fittings and five replacement parts for company's fuel pressure regulator. Each fitting is identified by letter for quick identification.

●

MORSE INSTRUMENT CO.
HUDSON, OHIO

MODEL MI

The MI engine control for inboards is an all-mechanical remote control system combining the throttle and shift in the movement of one lever. Features a neutral knob which, when pulled, disconnects the shift, locking it in neutral, so the throttle may be advanced for starting and warm-up.

●

MURPHY DIESEL
5317 W. BURNHAM ST.
MILWAUKEE 14, WIS.

MARINE GENERATOR SETS

Company offers complete line of marine generator sets ranging from 64 to 165 kw in AC or DC current models. Line includes 26 models of auxiliary generators in 4 and 6 cylinder models.

●

NAUTALLOY PRODUCTS INC.
P.O. BOX 295
AUBURN, N.Y.

LONG CRUISE NAUTALLOY FUEL TANKS

Fuel tanks are available in 8 different sizes, in either 12 or 18 gal. capacities. Features include built-in fuel gauges and baffles, fuel discharge line with threaded brass gooseneck fittings, vented cap and filler neck and two extra outlets with plugs for extra fuel discharge line. Price, from $36.50 to $48.50. Accessories are available.

●

OSCO MOTORS CORP.
3625 N. LAURENCE ST.
PHILADELPHIA, PA.

REVERSING GEARS

Line of hydraulic (self) controlled reversing gears for most automotive engine marine conversions is offered. OHF3 series of hydraulic gears is available with integral reduction ratios of 1.5:1; 2:1; 2.5:1 and 3:1 as well as 1:1 direct drive unit. Complete reversing gear assemblies bolt and couple directly to Buick, Cadillac, Dodge, Chevrolet, Plymouth, Ford and Chrysler flywheel ends without alteration.

●

D. W. ONAN & SONS
MINNEAPOLIS, MINN.

VACU-FLO

A 5000 watt, air cooled electric plant equipped with a new system of air-cooling a below decks gasoline engine driven generator. The unit has been approved for this unusual installation when rigged in accordance with bulletin NFPA

302, file 300 Series Marine, Fire Protection Standards For Motor Craft, dated May, 1957. The "Vacu-Flo" feature provides for lower maintenance costs, easier installation plus ¼ to 1 HP equivalent of forced draft in the engine compartment. A complete line of conventionally water cooled models is also available.

●

ONEIDA MACHINE TOOL CORP.
320 E. WALNUT ST., ONEIDA, N. Y.
NOMAR TANK HOLDERS
Keeps fuel tank in place quietly; prevents damage to boat and tank; easy and quick tank removal; in neutral gray color with anchor screw holes. Models to fit popular makes of tanks. Prices from $5.75 to $6.50.

●

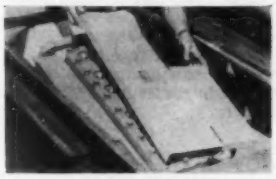
PANISH CONTROLS
191-203 BENNETT ST., BRIDGEPORT, CONN.
UNIVERSAL REPAIR FIXTURE
Repair fixture for outboard motors holds and positions motor being repaired, and allows it to be turned to any position while working lower and upper ends. Motor can be rotated 360° and moved away from work bench to allow access to all sides. Also: remote engine controls for clutch, throttle, diesel stop; single and multi-point control; outboard motor steerers.

●

PARAGON GEAR WORKS
TAUNTON, MASS.
PARAGON "H-A" TRANSMISSION
"H-A" series of marine transmissions is available with capacities up to 300 HP, and reduction gears for the series includes ratios of 1.5:1, 2:1, 2.5:1 and 3:1, for right and lefthand turning engines in matched pairs. Transmissions features include "forward" operation accomplished through a "locked-up clutch" which leaves gear train unloaded, a "cushion clutch" action for smooth shifting, and full power delivered in both forward and reverse operation. Anti-friction bearings are used throughout.

●

PEARCE SIMPSON, INC.
2295 N. W. 14TH ST., MIAMI 35, FLA.



TIFFINY SPARKSHIELDS
Shields engine to eliminate electrical noise in radiotelephone receiver. Simple to install, said not to affect engine performance. Available for most popular engine makes and models. Price, $39.50.

●

PENNSYLVANIA REFINING CO.
2686 LISBON RD.
CLEVELAND 4, OHIO
PENN DRAKE OUTBOARD MOTOR OIL
Oil is fortified against carbon build-up and spark plug fouling, and mixes with all gasolines. Price: 50¢ quart can.

●

PETERSON BROS., INC.
P. O. BOX 51, STA. G, JACKSONVILLE, FLA.
GATOR "SUPER" TEST TANK
Tests new large outboard engines as well as smaller models. Tank has 400 gal. capacity. Sold with or without hoist, safety winch, automatic brake, battery boxes, control panel mounts.

●

PLEWS OILER, INC.
MINNEAPOLIS, MINN.
PLEWS AP-202 PLASTIC GREASER
Greaser features push-button control, and three inch nozzle dispenses grease with pressure up to 3,000 lbs. P.S.I. Suitable for use on outboard motors, power lawn mowers, tractors or chain saws. Price: $2.69.

●

PRECISION GEARS & PRODUCTS
132 IOWA AVE.
PATERSON 3, N. J.
V-GLIDE MARINE DRIVE
The V-drive unit provides dependable operation for power plants located in the rear. Weighs only 68 lbs. and can handle engines up to 450 HP.

●

PUROLATOR PRODUCTS, INC.
RAHWAY, N. J.
FUEL FILTER MODEL P11-11
All-bronze fuel filter for marine inboard engines uses "paper" element to trap and remove tank rust and scale. Replaceable paper element will not disintegrate or clog the fuel system, and filter has positive-clamp cover; "O" ring seals and paper lift out of housing in one unit to prevent spilling of fuel into the bilge. Features include drain plug at bottom of unit and adjustable mounting bracket.

●

THE REX CORPORATION
HAYWARD RD., W. ACTON, MASS.
REX MOTORBOAT CABLE
7x7 galvanized steel construction, nylon- or PVC-jacketed cable. Nom. O.D. 130".

●

RICHARDSON CONTROLS CORP.
2563 POST ROAD
WARWICK, R. I.
MODEL GM MASTER PILOT
Non-hunting automatic pilot has gyroscopic heading selector, proportional steering and transistor amplifier. Remote control is available on the unit which weighs 18 lbs. and has electrically adjustable rudder limits. Price, $675.

ROCKLEDGE MACHINE WORKS
225 S. 15TH ST.
PHILADELPHIA 2, PA.

ZIPIN SHEAR PIN & NUT

Device permits replacing broken shear pins while motor is on transom, and without tools.

ROYAL MARINE PRODUCTS CO.
3864 FLATLANDS AVE.
BROOKLYN 34, N.Y.

ROYAL BATTERY SWITCH

Self-installed battery switch attaches directly to battery post without need to drill holes, and is of solid brass. Price: $3.75.

RUBBERMAID, INC.
WOOSTER, OHIO

BATTERY BOX

Box is molded of lightweight, waterproofed material which will not rust, dent, chip or crack. It has large carrying grips and shock absorbent material to cushion standard 6 or 12 volt batteries from vibration damage. Price: $6.40 complete with hold-down clamps and heavy-duty plastic straps; $5.95, without shock absorbent pad.

SAVAGE UNIVERSAL BRACKET CO.
NORWELL, MICH.

SAVAGE UNIVERSAL BRACKETS

For mounting any outboard motor on yacht, cruiser, or auxiliary. Does not mar finish of boat; no fire hazard; prevents fuel from dripping in boat; no spill when refilling. In adjustable or fixed angles from $18 to $50 for extra heavy motors. Also available: Canoe Bracket for all motors not over 2½ HP. Price, $15.

SCHAUER MFG. CORP.
4500 ALPINE AVE., CINCINNATI 42, O.

K312 BATTERY CHARGER

Use in electric-starting outboard and other motors. Recharges 12-volt batteries at a 3 ampere rate. Weight, 4½ lbs. Price, $14.95.

SEA DART, INC.
PORTLAND, ORE.

SEA DART TWINSTEER

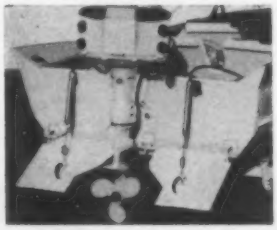
Steering systems use "lever arm" principle and is said to allow sharper turns at higher speeds smoothly, with leverage increasing in turns due to sliding action of pulleys on lever arm. Twinsteer operates well with mismatched motors, and Single-Steer is self-aligning and adaptable for dual motor installation. Prices, Twinsteer, $21.95 in brass plate, $27.50 in chrome; Single-Steer, $16.95.

SEAPOWER DIVISION
SWEINHART EQUIPMENT SALES, INC.
2900 E. OLYMPIC BLVD.
LOS ANGELES, CALIF.

SEAPOWER WATER PRESSURE SYSTEM

System is made up of self-priming, rotary impellor type electric pump, and can deliver water up to six outlets simultaneously. All parts of pump are made of non-corrosive materials, and systems are available in 12, 24 or 32 volts d.c., or (at extra cost) 110 volts a.c. Price, $75.

SEA-TRIM CORP.
PLYMOUTH, IND.



PLANE-O-MATIC

The Plane-O-Matic system is comprised of a pair of horizontal stainless steel fins which are mounted low on the stern of the boat. When the boat is in motion a unique hydraulic mechanism provides ample pressure on the elevators to lift the boat's stern. This gives the operator fingertip control of the boat's planing attitude, regardless of weight or weather condition.

SEN-DURE PRODUCTS, INC.
95 E. UNION ST.
BAY SHORE, L. I., N. Y.

ENGINE EQUIPMENT

Line includes heat exchanger fresh-water cooling systems and related accessories such as inboard and outboard raw water strainers, galley water heaters and other useful fittings pertaining to power plants and galley. Tailored equipment can be made available to craft and engine builders.

SINKO MFG. & TOOL CO.
7310 WILSON AVENUE
CHICAGO 31, ILL.

SEA GUARD MARINE POWER PACK

Case holds any 12-volt, heavy duty battery, and is constructed of polyethylene impervious to battery acids and weatherproof. Webbing strap is provided for tie-down purposes, and built-in charger features selenium rectifier which charges all 12-volt batteries at 3 amp. rate, full or trickle action, and overload protector that prevents overcharge. Unit is complete with outlet for 12-volt accessories and 5½' plug-in cord. Price, $28.95 with charger.

SNOW-NABSTEDT GEAR CORP.
HAMDEN, CONN.

MARINE REVERSE-REDUCTION GEAR MODEL 3941

Hydraulically actuated marine reverse-reduction gear has been engineered for high speed diesel engines and for either propeller or engine rotation with speeds up to 2,400 rpm. Maximum torque is 640 foot-lbs., for continuous operation (or 265 hp at 2,200 rpm) and 750 foot-lbs., for intermittent or light operation. It can be operated continuously at full power in either forward or reverse at all engine speeds. Unit is offered with reduction ratios up to 4.4:1.

THOS. S. STALEY
EAGLE POINT 1-434, ORE.

JACKASS LIFTER-UPPER

Moves outboard motor up-down for traversing shallows, rapids while underway. Detachable.

STARTRONIC MFG. CO.
1923 E. 14 ST.
OAKLAND 6, CALIF.

STARTRONIC

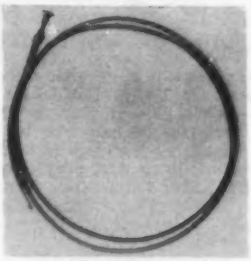
The Startronic is an electronic starter designed to eliminate hard starting caused by heavy moisture conditions, low battery power, flooding, fouled plugs, or worn distributor points. Easily installed and available in 6 and 12 volts and waterproof models.

STICKELL MARINE PROD.
1616 MOUNT ROYAL AVE.
BALTIMORE 17, MD.

CONVERTER-BATTERY CHARGER

The converter and battery charger has two separate operations, both working at the same time but independent of each other. It adapts 115 a.c. shore current to the boat's lighting system whether 6, 12, or 32 volts and these regular boat lights draw their current from shore current completely bypassing the batteries. At the same time the batteries are charged and after fully charged the rate automatically tapers off so they are left connected at all times.

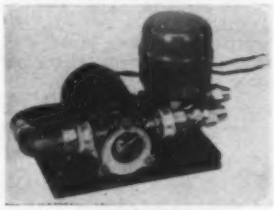
SUDBURY LABORATORY
SUDBURY, MASS.



CONTROL CASING

Non-corrosive, permanently lubricated, waterproof and oil-proof casing will not stretch or kink. Available in 100 ft. rolls, and in stock lengths of 7', 10' and 15' complete. Chrome choke handles are available.

SWEINHART ELECTRIC CO.
SEAPOWER DIV.
2900 E. OLYMPIC BLVD.
LOS ANGELES 23, CALIF.



SEAPOWER INVERT-A-CHARGE

Seapower Invert-A-Charge is an automatic inverter taking direct current from the battery system and producing 225 watts continuous, 110 volts, 60 cycles alternating current. By throwing a switch, it then becomes a fully automatic or manual fast charger producing up to 25 amps to trickle charge. Portable, the 12 volt unit weighs 15 lbs. and sells for $99.50 FOB. Also available are 24 and 32 volt models at slightly higher prices.

TANCHOR CO.
2848 CONGRESS ST.
LOUISVILLE, KY.

GAS TANK CLAMPS

The Tanchor gas tank clamps are engineered for simple, safe and secure mounting of portable gas tanks in boats. Simply attach set of clamps to rim of tank and mount in boat. Made of aluminum with steel components plated.

TELEFLEX INC.
CHURCH RD., NORTH WALES, PA.
HELMSMAN
OUTBOARD CONTROL
Four new features in the Helmsman single-lever outboard control system are positive neutral position, lightweight aluminum housing, reduced throttle travel and corrosion-free operating mechanism. The control uses Teleflex helix precision control cable housed in flexible, plastic-sheathed conduit which is wire-reinforced and unaffected by gasoline, oil, or sea water.

TEMPO PRODUCTS CO.
2062 E. 70TH ST.
CLEVELAND 3, OHIO

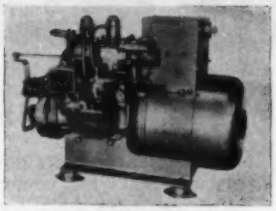
FUL-CONTROL FOOT THROTTLE
Foot throttle for operating outboards has "pivotal design," giving acceleration with toe pressure, deceleration with heel pressure. Treadle pivots in the center and remains in one position while underway. Unit utilizes control cables of standard manufacture, and cable is removed from standard control box and connected to foot throttle instead. Adjustable pads allow proper fit for any interior boat contour. Aluminum units can be joined in tandem for operation of dual installation and operated independently with both feet for operations such as docking. Price: $39.50.

TERADO CO.
1068 RAYMOND AVE.
ST. PAUL 8, MINN.
BATTERY CHARGERS
Two new battery chargers are being offered, the 5 amp. taper charge of 12 volt batteries and the 10-amp. taper charge for 6 or 12 volt batteries. Price of 5 amp. model, $19.95; 10 amp., $39.95.

TRAVACO LABORATORIES
233 CONDOR ST.
EAST BOSTON 28, MASS.

VO-TRON
Electronic ignition stabilizer is said to give faster acceleration, smoother idling, less carbon formation and better gas mileage. It is said to increase 200 rpm on marine engines. Price: $16.95, complete, ready to install.

UNIVERSAL MOTOR CO.
OSHKOSH, WIS.



LIGHT PLANTS
A complete line of diesel water cooled marine lighting plants are featured by Universal. Capacities range from 10 to 35 KW. Generators feature high KW output, a wide range of voltages and flexible control installation. Illustrated is the 12 volt fresh water-cooled model. Also a complete selection of air or radiator cooled gasoline lighting plants from 250 to 12,000 watts with battery chargers in all standard AC & DC voltages. Engineered to fit below decks and comply with strictest marine safety requirements.

VAC-U-MATIC CORP.
30 MOTT ST.
OCEANSIDE, N. Y.
SINGLE LEVER CONTROL
Control is available in both manual clutch kit and hydraulic clutch kit. Dual throttle stations are built into the unit, and small tee is supplied for them. Control can shift clutch even if engine stalls, and engine can be restarted with handle in neutral or reverse position.

VOLLRATH CO.
SHEBOYGAN, WISC.
GOLDEN VIKING WHEEL
Wheel has Tenite plastic rim and is available with either Universal Mounting, with stainless steel or plastic housing, or with stationary mounting, either 20° or 90°, with plastic housing. Rim is tapered on top and "hand-shaped" below for firm grip.

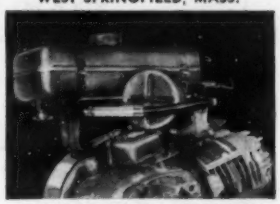
VOLVO IMPORTS, INC.
452 HUDSON TERRACE
ENGLEWOOD CLIFFS, N. J.
"VOLVO AQUAMATIC" DRIVE
A flexible inboard-outboard drive which mounts on the transom and features "outboard tilt protection." See Marine Engines section, Volvo Marine Engines.

WARNER GEAR DIV.
BORG-WARNER CORP.
MUNCIE, IND.
VELVET DRIVE TRANSMISSIONS
Line of Velvet Drive Hydraulic marine transmissions and gear reduction units includes 3 transmissions for use with gasoline engines up to 500 cu. in.

displacement. Diesel ratings are available upon request. Five reduction gear boxes are available in ratios of 1.523:1; 2.1:1; 2.57:1; 2.909:1 and a counter-rotating 1.909:1 reduction gear. Transmissions are self-contained, and no partial disassembling is required, and are adaptable to either hand or engine rotation and suited for twin engine boats.

WALTER MACHINE CO.
84-98 CAMBRIDGE AVE.
JERSEY CITY 7, N. J.
V-DRIVES
Several sizes of V-Drives are available which can be directly mounted to the Paragon and Warner hydraulic marine reverse gears. Supplied in cast iron and aluminum construction. Also offered are V-Drives for most engines.

WICO ELECTRIC CO.
DIV. OF GLOBE-UNION INC.
DEPT. PR-32
WEST SPRINGFIELD, MASS.



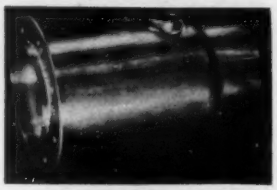
"CLEAR-VUE" FILTERS
Filter screens out dirt and sludge, and has transparent barrel to permit check of fuel flow without removal of filter. Filter is installed by cutting gas line and inserting it between gas tank and carburetor, with adapters provided to fit all fuel line sizes.

WINDSOR MACHINE PRODUCTS
WINDSOR, VT.
MOTRLOK REGULAR
Made of thick-walled welded tubing, locks are cadmium plated and designed to fit all motors with cast type handles, with rubber conversion insert optional for small motors with pin-type handles. Also available is Motrlok 25 model for 25 and 35 hp outboards with rubber safety bumper.

WINSLOW MFG. CORP.
3695 EAST 10TH COURT
HIALEAH, FLA.
MODEL JR AIR COMPRESSOR
The Model JR can be mounted in any position and is ideal for air horns, pressure for water tanks or any application where small volume, high pressure air is needed. Can be connected to drive. Aluminum castings; ball bearings; oil-less

piston. Price, $29.75. Available with air storage tank.

WILCOX-CRITTENDEN DIV.
NORTH & JUDD MFG. CO.
MIDDLETOWN, CONN.



EXHAUST GAS ELIMINATOR
The W-C Exhaust Gas Eliminator is made of monel, with flange an integral part of the unit. Prevents fumes from being blown back into the cockpit. Water is pumped through the opening and forces a sleeve of water to carry fumes into the water.

WILLIAMS & SCOTT CO.
BOX 7429
NO. KANSAS CITY 16, MO.
DAVY JONES LOCKER
The Davy Jones Locker is a motor to transom attachment device designed to forestall theft and end the hazard of motors working loose from transoms and falling into the water, although both clamps should become loosened. Price, $5.95.

WOODHILL CHEMICAL CO.
1390 E. 34TH ST.
CLEVELAND, OHIO
LIQUID STEEL
New adhesive is packaged in a squeeze tube, and is a combination of atomized steel and bonding resins in liquid form. It can be sprayed on or applied with spatula or brush, and is said to adhere permanently to all metals, and to bond securely to concrete, fiberglass and wood, including many types of laminated woods. Liquid Steel can be cut, filed, sanded or machined after drying, will not rust nor conduct electricity. Price, $1 per tube.

YARDNEY ELECTRIC CORP.
40-50 LEONARD ST.
NEW YORK 13, N. Y.
SILVERCEL BATTERY
The Yardney PM Silvercel Battery combines the features of both primary and secondary battery types and offers a high energy output. Available in sizes from 0.1 to 200 ampere-hours. Used for emergency communication packs and battery operated radios.

HARDWARE & FITTINGS

MARINE HARDWARE is designed for the rugged use the sea demands from fittings. To purchase house hardware and expect it to perform well under conditions of salt spray, and the accelerated corrosion of marine use, is to invite trouble. In sailboat service, especially, the substitution of inferior fittings and fastenings to save money is ill-advised. The stresses, loads, and thrust in a sailboat's rigging demand the best possible quality obtainable, and a built-in safety factor beyond the requirements of normal use. These safety factors do not necessarily imply greater weight. New nylon and composition fittings combine strength with light weight, and titanium and aluminum alloys are available in a wide range of fittings carefully designed for specialized uses.

Fittings For Safety's Sake

Many craft are lost because of inadequate cleating arrangements. Be sure that foredeck bitts or cleats are large and husky enough to stand the punishment meted out by a bouncing, yawing, storm-driven boat. Fairleads and chocks for docking and mooring lines should be oversized, rather than too small, so that chafe is minimized. Never merely screw chocks or stern bitts to the deck, but through-bolt them with long stove bolts, using hardwood blocks beneath the deck for reinforcement.

Marine hardware in the form of engine room cowl ventilators, or forced draft blowers with sparkproof motors, are insurance against collection of dangerous gasoline fumes in the bilge. All through-deck fittings for fresh water, and especially gasoline fills, should be standard marine types, approved by the Coast Guard, and following the installation recommendations of the Yacht Safety Bureau.

Fittings For Efficiency

If you habitually cruise alone or short-handed, there are many items of hardware that can make your boating easier. Handling heavy ground tackle is a chore, but davits with drum winches are available to make raising the hook a one hand operation. Roller reefing gear on a large sailboat is one of those wonderful conveniences that can become a necessity after you've grown accustomed to it. When a sudden squall appears over the horizon, or for beating back to port against a choppy sea, a turn or two in the main sail can mean the difference between a soaking and a comfortable, easy ride. A large capacity bilge pump convenient to the cockpit is essential.

CHECK LIST FOR HARDWARE AND FITTINGS

- ☐ **Are you using the right hardware and fittings for the right job?**
- ☐ **Are cleats and fairleads heavy enough, and securely through-bolted to hold your boat in a severe blow?**
- ☐ **Have you checked the fabric of your life preservers for rips and dry rot?**
- ☐ **Cabin fittings that break loose in heavy seas can cause damage to boat and crew. Are yours securely fastened?**

ANCHORS AND MOORINGS

- ☐ **Is your ground tackle suited to the bottom where you operate? Sometimes a kedge anchor will hold better than a patent anchor in kelp or rocky bottom.**
- ☐ **Is your anchor heavy enough for all the conditions of wind and weather you are likely to encounter? Do you carry a spare?**
- ☐ **Spare anchor keys and shackles are cheap. Do you carry them?**
- ☐ **Have you marked off your anchor lines so that you know how much scope is out? The holding power of an anchor is proportionate to the amount of scope run out.**

HANDY EQUIPMENT

- ☐ **Do you have a permanently mounted bilge pump, and do you frequently check its operation?**
- ☐ **Docking fenders are a nuisance to stow, but can save dollars expended on topsides paint. Do you have an adequate supply?**
- ☐ **"Fully found" is an old phrase that describes a boat well equipped for comfort, and safety, not lacking in any essential equipment. Does your boat qualify?**

Fittings For Comfort

Every boatman spends a certain amount of time below-decks in bad weather, and there is a host of marine fittings that can make this confinement more pleasant. Gimballed hurricane lights make for pleasing decor and offer a soft, warm light, without putting a drain on the ship's batteries. Corrosion proof ash trays, galley aids, clothes hangers, ventilators, and insect screens are among the hundreds of items that are engineered especially for the small boat cabin.

Anchors and Moorings

In time of foul weather, insurance statistics state, more boats are lost through inadequate moorings than from any other cause. A heavy chunk of old ballast and a piece of second hand chain are an invitation to a shipwreck. The holding power of a mooring does not depend on weight alone, but also upon the anchor design. A good mushroom anchor and tested chain, put down according to the best marine practice, are guarantees of a sound sleep without worry for your boat's safety. Unless yours is a small outboard that is trailered home every night, a spare anchor should form part of your standard equipment. Spare shackles, anchor keys, turnbuckles, screws, bolts and washers should be stored in a waterproof container handy for any emergency.

Where to Buy It

Your local marine hardware supply house stocks a large and expensive inventory of marine fittings. Sometimes, however, there may be an item which he will not carry that you can order from catalogs he has on hand. Many marine hardware companies issue their catalogues to boatmen as well at a nominal price to cover printing costs. You can select vital fittings in plenty of time to have them on hand when the yachting season begins. Often a little study of these catalogues will suggest items that can make a task you are doing the hard-way easier. In this section of the Directory, you will find a representative listing of marine wares and their manufacturers.

Coast Guard Approved?

When it comes to life preservers, extinguishers, and other items of equipment, the product *must comply* with requirements of the United States Coast Guard. A flame arrestor on the carburetor, and approved extinguishers are also musts. You are subject to boarding by the crew of an inspection craft of the C.G. at any time on Federal waterways, and stiff fines can be the result of any infringements.

AEROSONIC MARINE, INC.
P. O. BOX 549
CLEARWATER, FLA.

AEROSONIC POLARMARINE

Electric marine refrigerator unit requires no extra batteries or generators, and gives fully automatic operation on 12 volt DC battery or 115 AC (60 cycles). Features include forced air circuation permitting installation against bulkheads, hermetically sealed refrigeration system, and requirement of less than 2 sq. ft. of deck space for condenser unit. Unit is designed for installation in present ice chests, and directions are included for do-it-yourself installation. Recommended for use with cabinets of 5 cu. ft., system can make 1 lb. of ice per hour.

ALGONQUIN CO.
MARINE HARDWARE DIV.
COLUMBIA AVE. AND HANCOCK ST.
PHILADELPHIA 22, PA.

DECK AND HULL HARDWARE

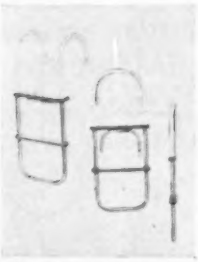
A full line of deck and hull fittings in a variety of brass and bronze alloys. Custom fittings of special design also available.

GEO. H. ALLEN
BOX 776, LA PORTE, TEX.

POLE & MAST FITTINGS

The Allen Friction Mast fitting allows one-hand operation and is designed specifically for use with the Allen Winged Snap-on Pole Fitting. Fittings can be used on boats ranging in size from Lightings to International 500s. Price of Mast Fitting, $10; of Pole Fitting, $12.50.

ALLAN MARINE, INC.
325 DUFFY AVE.
HICKSVILLE, N. Y.



FOLDING LADDERS

Folding ladder is of lightweight aluminum construction. Vinyl covered hooks protect gunwales from scratches and scars while ladder is in use. Folds down to compact, flat size for easy storage. Price of No. 2595—2 step, $12.95; No. 2596—3 step, $14.95.

AMERICAN HARD RUBBER CO.
200 E. 42 ST., NEW YORK 17, N. Y.

HONEST JOHN MARINE TOILET

Install - it - yourself model of styrene construction. Fits into any small corner. With complete kit. Price, $57.50.

AMERICAN MFG. CO., INC.
NOBLE AND WEST STS.
BROOKLYN 22, N. Y.

CORDAGE PRODUCTS

Lines of rope, twine, oakum and packing include American Brand manila, nylon and dacron ropes, and American Brand Floteropes, of both Polyethylene fiber and Polypropylene fiber.

AMERICAN MAT CORP.
2316 ADAMS ST., TOLEDO 2, OHIO

VINYL MATS

These plastic link mats add to the appearance of any boat while protecting decks from wear. They also prevent slipping when decks are wet. Available in a variety of colors.

AMERICAN THERMOS PRODUCTS CO.
NORWICH, CONN.

THERMOS CHILLYBIN CHEST

Ideal for the fisherman and boating enthusiast, the Chillybin foam plastic ice chest by Thermos is so light that it floats. It is sturdy enough to be used as a boat seat. The chest is fused into a solid unit so there are no seams to rust or give way. Price, $13.95. American Thermos offers a complete line of their famous Thermos brand products ideal for boatmen.

ARNOLT CORP.
WARSAW, IND.

MARINE EQUIPMENT

Arnolt Corp. offers a complete line of deck hardware ranging from step pads to remote control lights. Also offer camp trailers, marine engines, outboard boats and many other boating items.

ATTWOOD BRASS WORKS
GRAND RAPIDS, MICH.

SEAFLITE PULLEYS

2" nylon coaming pulley for fiberglass boats and 2" ball bearing swivel pulley for steering. Each pulley has load capacity of over 600 lbs. The nylon pulley is made for running a tow line through the motor well of a fiberglass boat; the ball bearing pulley is recommended for high horsepower outboard engines.

Attach them yourself for secure protection...

DOT®

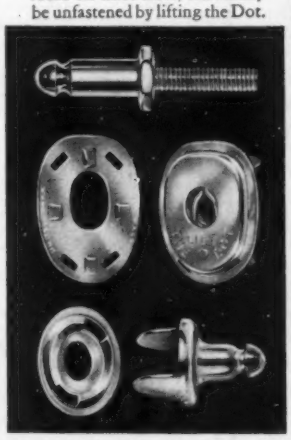
MARINE FASTENERS

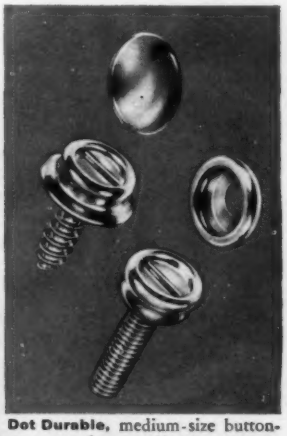
all brass—won't rust—sure to hold

Depend on DOT to secure covers on central panels, cockpits, hatches, outboard motors or dinghies. Easy to attach, engineered for precision performance; work fast, hold fast; no maintenance, no replacement. There's a fastener for every requirement in DOT's special Mariners' Line—brass throughout with nickel, chrome, brass or black finish. Carr Fastener Company, Division of United-Carr, First in Fasteners, Cambridge 42, Mass.

Just ask your marine hardware supplier for Dot Fasteners

Lift-the-Dot Snap Fastener, locks on three sides, can readily be unfastened by lifting the Dot.





Dot Durable, medium-size button-type snap fastener. Simple to attach, combines tenacity with ease of action.

Fasteners illustrated can be supplied with rivet, machine screw or wood screw type studs.

The British Colonial ESTATES, LTD.

AT WEST END, GRAND BAHAMA ISLAND, THE BAHAMAS

PLAN FOR PLEASURE . . . and profit, too . . . AT GRAND BAHAMA!

In this typical British Crown Colony you're a million miles from nowhere, yet so very near: just 50 miles from Palm Beach, Florida—only 25 minutes away by aeroplane!

The Bahamas have clung to the old ways: its picturesque customs, its gentle manners, its quaintness and tranquility . . . and where the native Bahamians speak Elizabethan English with a British accent . . . all reminiscent of a kind of life which vanished almost everywhere many, many years ago.

There are no taxes in this small tropical Island Paradise; no hustle and bustle of the large cities. There are no severe Winters or scorching Summers. The Isles of Perpetual June—the Bahamas—have a Summer average temperature of 82 degrees while the Winter average is only 74—with never a freeze or even a frost!

The climate is one of the healthiest in the world. Its soothing gentle breezes . . . favoured by the prevailing Trade Winds . . . maintain an equable year round climatic condition that is unsurpassed—and rarely duplicated—anywhere else in this world.

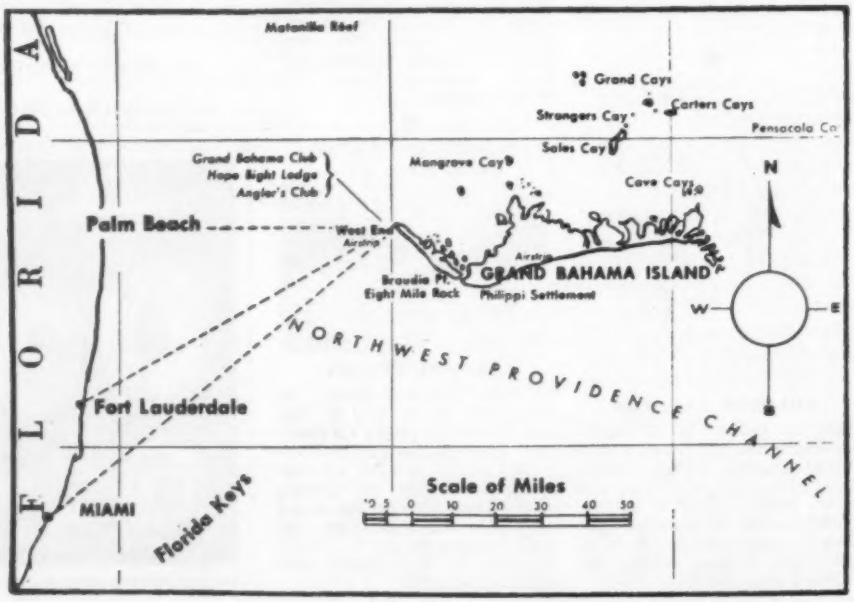
The sea is more beautiful than anywhere in the world . . . unbelievably clear and translucent, streaked with varying shades of emerald, aquamarine, turquoise, blue and yellow . . . and it surfs itself majestically along broad white and pink coral sand beaches for miles and miles on end.

Truly, this is Ponce de Leon's fabulous and colourful Fountain of Youth which he discovered over 400 years ago. It's all yours, also to discover, to explore, to enjoy and to relax among these priceless blessings—a lovely, unspoiled Tropical Island Paradise with warm sun-splashed lazy days and clear star-studded balmy evenings.

The beautiful, exclusive British Colonial Estates, Ltd. offers you, your family and friends a most desirable and choice residential site investment—minimum over one-third acre lots which will enhance in value from year to year.

ADVANTAGES OF REAL ESTATE INVESTMENTS IN THE BAHAMAS

No Inheritance Tax on Bahamian Real Estate;
No Personal or Corporation Income Tax; no County Taxes;
No Capital Gains or Excess Profits Tax; no School Tax;
No Gift or Sales Tax; No "hidden" taxes; no City Taxes;
No Real Estate Tax on vacant property; no Withholding Taxes;
No Currency Restrictions; stability of the Pound Sterling;
Best Climate in the world (see Temperature Chart)
Most beautiful beaches in the world—miles on end;
Most beautiful waters in the world: clear, sparkling, pastels;
Stability of the Bahamian Government: over 400 year record;
Stability of the Currency: no fluctuations; no manipulations;
Best fishing in the world: evidence?—world record catches;
Healthiest climate in the world: no mosquitoes, no bugs, no disease;
Foreign atmosphere—British Crown Colony in old world customs;
Bargain Paradise: one-half U.S. prices on French perfumes, cameras, liquors, English imports: leather, luggage, woolens, etc.
Proximity to States—only 50 miles from Palm Beach, Florida; with daily scheduled air service, low fares, from Miami, West Palm Beach, Fort Lauderdale and St. Petersburg.



PRIME INVESTMENT AND RECREATIONAL OPPORTUNITY in the TAXFREE British Crown Colony of

GRAND BAHAMA ISLAND

Get in on the phenomenal (nationally publicized) land boom in this tropical Island Paradise where land values are pyramiding every year —and from all indications will continue to spiral upward for many years!

For a very limited time—and the first time on the open market—The British Colonial Estates, Ltd., at West End, Grand Bahama Island, offers a predevelopment sale of choice residential homesites, each one with a minimum of over a third acre, in a beautiful, restricted and exclusive residential development with broad, palm-lined boulevards and over one-fourth mile of white sandy beaches.

To the first 100 purchasers of these lovely, large residential lots, The British Colonial Estates, Ltd. will give one lot FREE with each lot purchased . . . yes, you can buy TWO lots for only the price of one—and sell or trade the other to a friend . . . or you may prefer to hold on to them for a price increase and thereby realize a most substantial profit. It's an investment opportunity seldom offered to the public; it's a rare opportunity to realize the pleasure, privacy and proximity of owning a tropical island paradise just 50 miles from Palm Beach with low air fares and a daily scheduled air service from Miami, St. Petersburg, Fort Lauderdale and West Palm Beach, Florida.

AVERAGE TEMPERATURES FOR THE BAHAMAS

JANUARY	68
FEBRUARY	69
MARCH	70
APRIL	75
MAY	77
JUNE	80
JULY	82
AUGUST	82
SEPTEMBER	82
OCTOBER	78
NOVEMBER	74
DECEMBER	73

AN ISLAND OF CAREFREE ADVENTURE

Start your own Island Paradise today by mailing the coupon below and enclosing your check for $100 as a deposit on your two lots, subject to your selection from a plat which will be sent you upon receipt of your deposit. The terms of this special pre-development sale: 2 lots for the price of only 1 are: $100 deposit pending selection of lots; 25% down (less the $100 credit) payment and 1% per month payments until liquidated. 5% interest on the outstanding balance per annum. 10% discount for cash. Terms and conditions subject to change prior to purchaser's firm order.

COMPARATIVE PRICES, PER ACRE, FOR LAND ON GRAND BAHAMA ISLAND

Year	Per Acre Price	% Increase over preceding year
1949	$ 25	100%
1950	$ 50	100%
1951	$ 75	50%
1952	$ 100	33%
1953	$ 200	100%
1954	$ 300	50%
1955	$ 400	33%
1956	$ 500	25%
1957	$ 750	50%
1958	$1,000	33%
1959	$2,000	100%
1960	$—?—	(?)

FACTS YOU SHOULD KNOW ABOUT GRAND BAHAMA

PROPERTY OWNERSHIP

Owning property in the Bahamas at the British Colonial Estates, Ltd. involves no change in present citizenship status, nor any taxes or obligations to the Bahamian Government.

CURRENCY

There is no Currency Exchange barrier. U. S. and British currency is acceptable and interchangeable as well as convertible from Pounds to Dollars and can be transmitted. The present rate of exchange for the Pound Sterling is $2.80.

SPORTS AND RECREATION

Deep-sea and shallow fishing, yachting, motor and sail boating, skin diving, swimming, golf, tennis, bicycling, beachcombing, marine exploration, island hopping, night clubbing, photography, hunting . . . and you name it.

SERVANTS AND LABOR

Servants are plentiful, loyal, competent and friendly. Wages are only a fraction of Stateside schedules. Excellent domestics.

SHOPPING FACILITIES

At West End Village, only 3 miles from The British Colonial Estates, Ltd., there are shops catering to all requirements for goods, products and commodities from all over the world and especially the U.S. and Britain.

MEDICAL SERVICES

There are modern medical facilities available, complete in every respect, with an outstanding physician at West End, Grand Bahama Island.

CHURCHES

Protestant and Catholic Church Services are conducted on the Island.

SCHOOLS

There are Elementary and Grade Schools with high standards on the Island.

PROTECTION

An efficient Island Police Department offers excellent protection to residents, property and general welfare. There is no crime on the island; occasional minor infractions.

To The British Colonial Estates, Ltd., Palm Beach Towers, Palm Beach, Florida

Gentlemen: ☐ I enclose my check (or Money Order) in the amount of $100 as a deposit on two lots to be selected by me, located in the British Colonial Estates, Ltd., at West End, Grand Bahama Island. It is understood that I am purchasing and will receive title to two lots but will pay only for one lot. ☐ Send brochure and full details.

NAME _____

ADDRESS _____

CITY _____ ZONE NO. _____ STATE _____

(Make check payable to: THE BRITISH COLONIAL ESTATES, LTD.)

(Lot prices range from $2,430 to $4,374 for residential lots and from $5,518 to $10,965 for beachfront and commercial lots.)

BARKER MFG. CO.
HONEOYE FALLS, N. Y.

BOARDING LADDER

Floating ladder available in 2, 3, or 4 step models. Construction: aluminum tubing, marine varnish finished hardwood steps. Folds for stowage. Additional information on request. Prices from $9.45.

BAY OUTBOARD ACCESSORIES
BAY PATTERN WORKS
SANDUSKY, OHIO

OUTBOARD ACCESSORIES

Stock includes steering brackets, dual control bars, transom supports, and snap-on ski rings. Anchor Man enables anyone aboard to raise, lower or stow the anchor from any location in the boat and is available Feb. 1. Literature sent upon request.

BOAT NAMES CO.
5910 E. NEW 40 HWY.
KANSAS CITY, MO.

PORT-A-PADDLE

Collapsible paddles designed for easy storage. Pulls out to 4'3". Waterproof and will float. Weighs 2½ lbs. Price, $9.95.

BRINKTUN, INC.
710 NORTH 4th ST.
MINNEAPOLIS, MINN.

BOARDING LADDERS

Line of boarding ladders features 1 1/16" thick "Apitong" mahogany steps in 2, 3 or 4 step models.

BRITISH MARINE PRODUCTS
80 SHORE RD.
PORT WASHINGTON, N. Y.

SAILBOAT FITTINGS

Two new sailboat fittings are offered. Main sheet Jamming Cleat and Block mounted as one unit and pivoting 360 degrees independent of the other and a Swivel Deck Plate. This line includes pulley blocks, cruiser blocks, jamming cleats, winches, sail battens and other sailboat fittings.

BRUMMEL HOOK CO.
3939 BRUMMEL ST.
SKOKIE, ILL.

BRUMMEL HOOKS

Brummel manufactures a complete line of hooks and fasteners for every boating application, from ski tow lines to sailboat fastenings.

BULLDOG MARINE PRODUCTS
5825 S. WESTERN AVE.
CHICAGO 36, ILL.

POLY-BRAID ROPE

Bulldog Poly-Braid Professional ski tow set includes 75' of ¼" self-splicing polyethylene rope which floats and has a tensile strength of over 1,000 lbs. Complete with 14" hardwood handle, $3.95. Bulldog offers a complete line of ropes to fit every boating need.

CAPTAIN JOHN'S
MARINE HARDWARE
P.O. BOX 92
WETHERSFIELD 9, CONN.

CAPTAIN JOHN'S DAVITS

Full line of 12 models of davits, including Model LM-103 which is designed especially for yachts with minimum freeboard at the stern and extreme curving transom. The LM-103 raises a dinghy flush with the deck; rating per pair, 500 lb.; weight each, 13 lb. Other models available with lifting ratings per pair from 350 lb. to 2,000 lb. Accessories available: mounting bases, swivel and flush-set bases, extension bases, stabilizers to prevent tipping of dinghy during loading and launching. Further information on request. Prices from $115.

CATING ROPE WORKS
MASPETH, N. Y.

TILLER CABLE

Tiller cable made from Mylar, the new duPont plastic has a high resistance to abrasion, combined with exceptional strength and is impervious to sun and moisture. Available in diameters from 3/16" to ⅞".

PREMAX PRODUCTS DIV.,
CHISHOLM RYDER CO.
COLLEGE AND HIGHLAND AVE.
NIAGARA FALLS, N. Y.

PREMAX HARDWARE

Premax: Polished, embossed brass and aluminum boat letters 3", 4", and 6". Aluminum and stainless steel telescoping vertical marine antennas from 12' to 36'. Base insulator mountings chrome-plated brass and galv. iron, rigid and hinge post type. Marine loading coils, waterproofed.

DADSON MARINE CORP.
DUCK POND RD.
GLEN COVE, N. Y.

VIKING NYLON HARDWARE

Viking deck hardware is made of tough durable nylon requiring no polishing and is lightweight, resistant to corrosion and color fast.

R. H. DAVID CO.
726 ROSSMOR BLDG.
ST. PAUL 1, MINN.

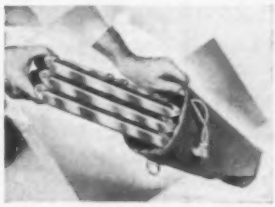
DELUXE DECK MIRROR

Gives panoramic vision; made of heavy duty stainless steel; neoprene swivel absorbs shock and vibration; corrosion resistant. Clip-on model, $6.95; Deluxe model, $7.95. Deck mirror also available, same price.

MARINE PRODUCTS DIV.
DETROIT STAMPING CO.
340 MIDLAND AVE.
DETROIT 3, MICH.

STO-A-WAY LADDER

Standard 3-step boarding lad-



der is of stainless steel and anodized aluminum for maintenance-free operation. Rubber-tipped stand-off bars available in 3-, 6-, and 9-inch lengths for any hull contour. Mounts on stainless steel fittings secured to hull. Steps are anti-skid type, 3½" wide. Weight, 3¼ lbs. Sto-A-Way Add-A-Step adds 10 inches to length of ladder. Price: $29.50; Add-A-Step, $7.50 each step.

ENSIN PRODUCTS DIV.
MINIT SPRAY CORP.
P.O. BOX 189
DES PLAINES, ILL.

ENSIN MINIT STOVE

Lightweight stove has adjustment of flame for cooking speed desired, and throw-away gas containers. Gimbal ring attachment is available. Price, $6.95. Company also offers Ensin Perk-a-Pot, a 6-cup percolator with self-contained burner and fuel. Fuel can is replaceable. Price, $14.95.

ENTERPRISE METAL
PRODUCTS INC.
405 2nd AVE.
NEW HYDE PARK, N. Y.

EMPCO HAND WINDSHIELD WIPER

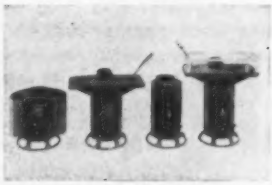
Leakproof wiper will not rust and is simple to install. Features include 10 rubber edges on blade and adjustable spring tension in arm. Brass wiper is chrome-plated. Prices: $6 straight blade; $7.50 curved blade.

ENVON PRODUCTS CO.
4713 MAPLEWOOD DR.
ELKHART, IND.

BOARDING STEP

Hinged boarding step is permanently attached to boat and swings down presenting step about knee-deep under the water. Unit is protected and bushed for salt water use. Company also manufactures removable outboard motor brackets, water ski tow rope sets, stainless steel ski hooks, ski bridles, brass step plates, neoprene line clamps, outboard gas-can tank holders, starter cords and cruiser steps.

FATSCO
251 N. FAIR AVE.
BENTON HARBOR, MICH.



STOVES

Full line of stoves for land or boat use. Illustrated, left to right: Model 450 "Pet Stove" with stainless steel shield; can be used with charcoal or similar fuels. 11¾" high, weight 10¼ lbs. Price, $9.95. Model 450-2L "Pet 2-Lid Stove" with 9"x14½" cooking top, weight 20½ lbs., price $17.95. Model 400 "Tiny Tot Stove" similar to "Pet" but 14" high, price $10.95. Model 400-2L "Tiny Tot 2-Lid Stove" with 9"x14½" cooking top, sea rail, $2.50, weight 21½ lbs., price $18.50. Other models available, priced to $36. Accessories available: pipes, ventilators, shields, etc. "Pet" and "Tiny Tot" stoves burn coal, wood, charcoal, etc.; other models designed for wood, paper, etc. Stainless steel stove bodies, shields, pipes, elbows, etc., prices on request.

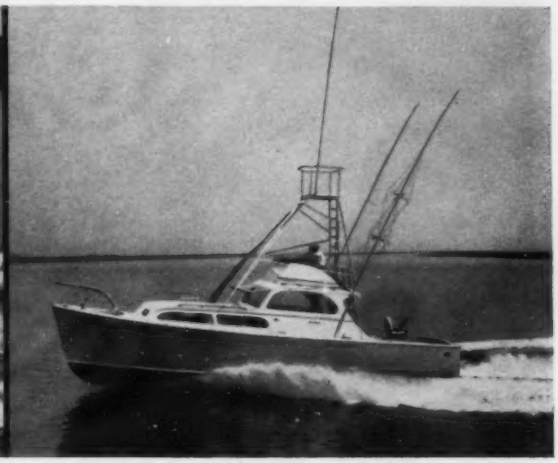
FLORIDA WIRE &
RIGGING WORKS, INC.
578 N.W. 72nd ST., MIAMI, FLA.

WIRES AND FITTINGS

compare *Pacemaker*

WITH ANY BOAT AT ANYWHERE NEAR THE PRICE!

$6,695 for a 30' Sport Fisherman. Sleeps two. 125 HP Chrysler Crown.



$25,370 for a 40' Sport Fisherman. Sleeps six. Twin Chrysler Sea-V's—2 to 1 R.D.

$11,640 for a 33' Convertible Sedan. Sleeps six. 125 HP Chrysler Crown—1½ to 1 R.D.

$8,750 for a 30' Express Cruiser. Sleeps four. 125 HP Chrysler Crown.

And the place to do it is at a Motor Boat Show. Compare the specifications; compare the finish. Compare the equipment included. You'll see what makes Pacemaker a rugged sea boat; and why a Pacemaker is the Live-able boat.

Best value when you buy it; best value years later when you trade it.

SPACE B-52

NEW YORK NATIONAL MOTOR BOAT SHOW

Pacemaker SEA SKIFF CRUISERS

C. P. Leek & Sons, Inc.
Lower Bank, Egg Harbor, N. J.

SHOW BUSINESS . . . *here* all year round. Come to Bay Head for the 14th ANNUAL DALE BOAT SHOW, starting February 20. New boats, new ideas every week. See us now for your new boat . . . Al Blackman, Bill Ervin, Dane Hahn, Harold Scott, Mel Wamboldt.

DALE YACHT BASIN

One of America's Foremost Boat Dealers

BAY HEAD, NEW JERSEY TWinbrook 2-3000

MOVING?

Be sure POPULAR BOATING follows you. Please send your change of address to POPULAR BOATING.

CIRCULATION DEPARTMENT

434 So. Wabash Ave. Chicago 5, Ill.

MAGNIFICENT BENDIX REMOTE COMPASS

Powered by low-consumption, high-reliability transistorized pack

Top quality Magnesyn compact, three-unit system giving precise, hunt-free direction indication. Master compass is sited where interference is lowest—ensuring minimum deviation error; "instant reading" indicator locates where required to give greatest facility to helmsman.
Can be owner-installed quickly without specialist skill or labor. Kit includes operating and installation instructions, plugs, and templates. Fully guaranteed.
For 12 or 24 volts; consumption less than 1 Amp. Repeator indicators to give duplicate direction indication in cabin or saloon supplied to order—$7.50c.

$49 prepaid

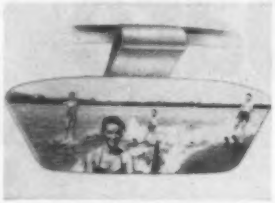
MARINE CONTROL EQUIPMENT LTD.

52 Tottenham Court Road, London, W.1, England

Complete line of wires, ropes and fittings for boats from 14′ to 110′.

●

H. N. GILMAN & ASSOC.
2010 NICOLLET AVE., MINN. 4, MINN.



CLIP-ON WINDSHIELD MIRROR

Stainless steel panoramic 170° mirror clips on anywhere, has neoprene swivel, is corrosion resistant. Swivel absorbs shock and vibration, a necessity for water skiing. Price, $6.95.

●

E. F. GRIFFITHS CO.
346 E. WALNUT LANE
PHILADELPHIA 44, PA.

RACE-LITE SAILBOAT FITTINGS

Featuring the combination of nylon and corrosion resistant 18-8 nickel bearing stainless steel, Race-Lite hardware is custom designed for racing sailboats.

●

HACKENSACK CABLE CORP.
110 ORCHARD ST.
HACKENSACK, N. J.

WIRE ROPE

A complete line of wire rope for all marine applications is manufactured. Includes stainless steel wire rope and cable, Nylon and Vinyl covered tiller cable, Monel wire rope and cable, bronze wire rope and cable.

●

HARD SAILS, INC.
ISLIP, N. Y.

SAILING ACCESSORIES

Produced in Scotland, the new foul weather clothing is made of vinyl-coated cloth and is guaranteed to stay soft and pliable in all climates and not to peel or become tacky. Special models for women are shaped and have zippered, side-closing trousers. Luggage items are made of vinyl-coated canvas. They include water-resistant cruise bags, suit bags and beach bags, available singly or in matched sets.

●

HERCULITE PROTECTIVE FABRICS
125 SUSSEX AVE.
NEWARK 3, N.J.

HERCULITE SLIPSTOP

Pressure-sensitive, non-skid decking material for sure footing is made of mineral particles bonded to pliable sheet with pressure-sensitive backing. Product comes in rolls 1″ wide and up, and can be shaped and applied to danger spots such as decks, ladders.

●

HOMESTEAND INC.
LARCHMONT, N. Y.

ALCOHOL PRESSURE STOVE

The Golden Mariner alcohol pressure stove has been on the market for several years. Easy to clean, no sharp edges or square corners, equipped with removable grates. Will accommodate pots up to 11½″ in diameter.

●

HOWE & BAINBRIDGE CO., INC.
220 COMMERCIAL ST.
BOSTON 13, MASS.

SAIL BATTENS

Sail battens in standard sizes, 1″ to 2″ widths and lengths from 12″ to 48″, are manufactured by Bete Mfg. Co. and sold by Howe & Bainbridge Co. These are all specially tapered battens made from white ash and treated for mildew proofing.

●

HY STYLES
1423 FRANKLIN AVE.
DETROIT, MICH.

HY STYLE SAFETY RAILS

The stainless steel bow rails feature a heavier more rakish deluxe bow angle base, heavier offset stanchion base, improved rectangular stanchion base plus new stanchion base assembly. A hand rail assembly is also offered.

●

INSTA-MATIC HEATER CO.
530 McDONALD ST.
ELKHART, IND.

M 27 REFRIGERATOR

Beer and food will stay cold in this Domestic M 27 refrigerator designed to operate on bottle gas, town gas or electricity. Large cubic footage and ready-to-use ice cubes afford convenience onboard. Prices range from $137.80 to $246.50, depending on model.

●

JERVIS CORP.
GRANDVILLE, MICH.

MARINE HARDWARE

All Jervis marine hardware, including ski-mirrors, hornlights, stern lights and deck hardware are double nickel coated at no increase in price. A complete line of marine hardware is available.

●

KAINER AND CO.
763 LEXINGTON ST.
CHICAGO, ILL.

METEOR
Steel core Tenite steering wheel has conical-shaped housing of chrome-plated Zamak, and is available in a variety of color combinations and popular mounts. Wheel is embedded with flecks of simulated gold and silver.

●

LAFAYETTE SUPPLY CO.
WEST LAFAYETTE, OHIO

BOARDING LADDERS
Line of ladders features anodized 1" tubular aluminum with hardwood steps and vinyl covered hooks. Ladders are available in 2, 3 and 4-step models. Prices: from $6.45 to $14.95.

BOAT HOOK
Hook is available in 3', 4', 6' and 8' models, has anodized aluminum shaft and cast aluminum head, and is guaranteed to float. Prices: from $3.25 to $6.25.

LAFAYETTE R-W OARLOCKS
Pin unit slips over oar to desired position and is securely tightened with wing nut. Price, $3.70 per pair.

●

LARCO, INC.
ROUTE 20 EAST
PAINESVILLE, OHIO

LARCO CONDENSER
3-ton condenser unit consisting of Compressor-Motor Section and Water-Air Cooled Condenser Section. Chassis is split to facilitate installation.

CABIN UNIT
Evaporator cabin units are designed to mount flush in bulkhead or available locker space. One-half, one- and two-ton capacities. Larco conditioner is the only marine system on the market providing both air conditioning and heating utilizing the "Heat Pump" principle, for pleasure craft applications. Six models are offered in five capacities priced from $2,250.00 for boats of 30' to 65' and above.

●

LEATHERWOOD MFG. CO.
P.O. BOX 739
CLARKSVILLE, TENN.

BEAVER BRAND PADDLE
No. 402 laminated paddle made from selected southern lumber and western Sitka spruce. Prices range from $2.40 to $4.00 for 2½' to 6' lengths. Varying length oars and paddles are offered by Leatherwood.

●

MAGIC TOOLS, INC.
991 WILLIAMS ST.
SAN LEANDRO, CALIF.

COLLAPSIBLE LADDERS
The Magic Ladders fold compactly to take up little space in the boat. It will hang straight on an uneven boat. Available with 6, 8 or 11" hooks. Made of aluminum with hardwood steps. Price for 2 step model, $11.95; 3 step, $12.95; 4 step, $15.95.

MAGIC GLOVE COMPARTMENT
This compartment is installed in dash of boat. The face is highly polished. It comes equipped with two keys. Can also be put under seats. Compartment is plastic with chrome plated brass face. Hole to be cut in dash is approximately 11⅝"x3¼". Price, $22.50.

●

ERNEST J. MAIWALD MFG.
HUNTINGTON, N. Y.

YACHT HEATER
Combination open fireplace and stove constructed of heat retaining soapstone and bronze. Ideal for providing warmth below in early Spring and Fall as well as all cool, damp days of the yachting season. Small stove priced at $140; large stove $230.

●

MCPHERSON, INC.
4603 W. OSBORNE AVE.
TAMPA 3, FLA.

MARINE TOILET
The Jet Age toilet grinds sewage by jet action of water and will pump sewage to height of 10' with 40 lbs. water pressure through ⅝" tubing or hose. Suggested price, $95, which includes toilet, seat and manually operated water valve.

●

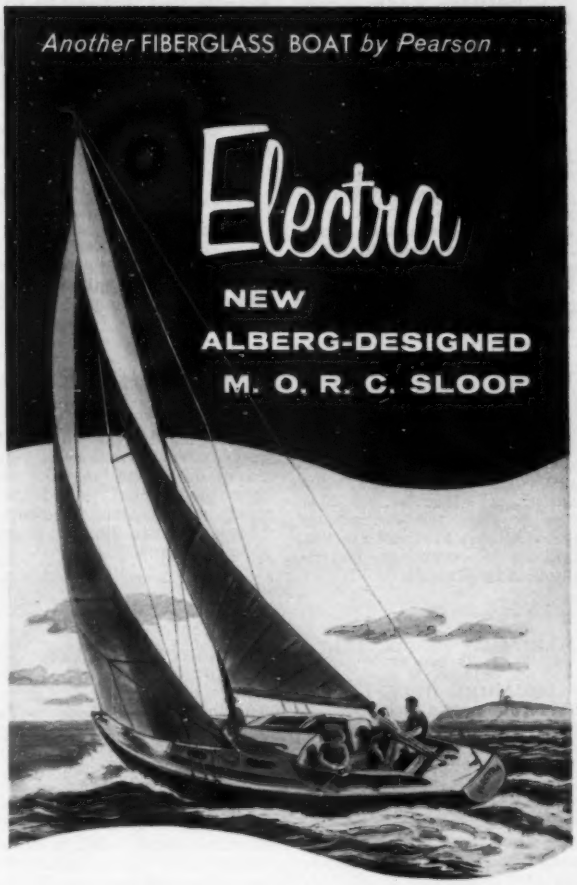
MERRIMAN BROTHERS INC.
185 AMORY ST.
BOSTON 30, MASS.

UNIVERSAL PULPITS
Available are four universal design pulpits, in either plain or bright chrome-plated brass tube and bronze castings, or stainless tubing. Models are available in standard runabout or power boat designs, and standard sailboat designs, either knockabout or bowsprit models. Each pulpit kit includes instructions, correct size drills and copper beryllium roll pins.

●

MILLER CO.
BOX 66, YOUNGSTOWN, OHIO

BRASS TILLER PULLEY
Brass Tiller Pulley with finest chrome on nickel finish. 2" nylon sheave rolls on stainless steel ball bearings for easier,



Twenty-two feet of day-sailing pleasure at amazingly low cost! **ELECTRA** offers sleeping accommodations for 2 (optional berths forward for children), sitting headroom, masthead rig, self-bailing cockpit, lead ballast (1000#) inside fiberglass keel, and other big-boat features. Designed by Carl A. Alberg whose show-stealing TRITON has made such outstanding sales and performance records, and built at the famous Herreshoff Yacht Yard, a division of Pearson Corporation.

ELECTRA will appeal to the midget ocean racing fraternity, the day-sailing family, and clubs considering a smart one-design class. $3985 less sails.

For further details don't fail to attend **ELECTRA's** debut at the 1960 New York Boat Show, or contact Northrop & Johnson, Inc., national distributors.

Northrop and Johnson

366 MADISON AVENUE, NEW YORK 17, N. Y.
Telephone MUrray Hill 2-5874

noiseless steering. Full swivel eye, complete with anchor strap.

●

ENSIN PRODUCTS DIV.
MINIT SPRAY CORP.
P.O. BOX 189
DES PLAINES, ILL.

ENSIN MINIT STOVE

Lightweight stove has adjustment of flame for cooking speed desired, and throw-away gas containers. Gimbal ring attachment is available. Price, $6.95. Company also offers Ensin Perk-a-Pot, a 6-cup percolator with self-contained burner and fuel. Fuel can is replaceable. Price, $14.95.

●

D. W. MOOR CO.
2316 ADAMS ST., TOLEDO 2, OHIO

CHAFING GEAR

Designed to give your lines protection from abrasion, this new gear is of white vinyl tubing, ¾" I.D. x ⅞" O.D. May also be used for Tachometer Cable Cover, Porthole Gasket, and for ¾" Aluminum Boarding Ladder Tubing.

●

NAUTALLOY PRODUCTS INC.
P. O. BOX 295
AUBURN, N. Y.

AQUABIRD DECK SETS

Triple chrome-plated die-cast Zamac sets are available. Price: $14.30 complete set. Also available are Skylark deck sets of die-cast Zamac, open base design, $11.25, plus matching combination bow light and pennant mast, $11.45. Company also offers custom moulding and extrusions of Nautalloy.

●

NORCO, INC.
5111 W. WASHINGTON BLVD.
LOS ANGELES 16, CALIF.

MARINE REFRIGERATORS

Marine electric refrigerators are available in four and six cu. ft. models, for use with 12, 24, 32, 110 or 220 volt power. Features include two ejector ice cube trays, slide-out egg tray, full width crisper, door holding tall bottles and adjustable glideout shelves on both model, with a zero-cold freezing unit in 6 cu. ft. model. Prices, $289.95, 6 cu. ft. model; $239.95, 4 cu. ft. model. Standard is 110 volt; other voltage sizes, small additional charge.

●

PETERS AND RUSSELL, INC.
517 W. LIBERTY ST.
SPRINGFIELD, OHIO

"PAR-CLEAT" DECK FITTINGS

Cleats are designed to hold finders and spring lines without tying knots; line can be secured by looping or twisting it over cleat, and released by pull on free end. Cleats are of solid brass, chrome-plated; they are packaged in pairs, port and starboard, and available in two sizes. Prices: 3-in., $2.50 a pair; 4-in., $4.25 a pair.

"SKIPPER HITCHES"

New device for securing, hanging up or lashing down any movable item of equipment on boat consists of strap of live rubber with stainless clips permanently molded into each end. Hitch can be attached in different ways and will stretch to double length to hold items of any size or shape. Prices: 10½" long, $1.95 for packet of 4; 18½" long, $1.25 for packet of 2.

●

A. E. PETERSON MFG. CO.
GLENDALE 1, CALIF.

FOLDA STEP

Folding steps have rubber tips and treads and salt-resisting chrome and enameled steel construction.

●

PHOENIX LOCK CO.
321 THIRD AVE.
NEWARK 7, N.J.

MARINE HARDWARE

Established in 1873, Phoenix Lock Co. manufactures a long list of brass and bronze boat hardware including government specification hardware. They also make items to order or to blueprint.

●

RARITAN ENGINEERING CO.
24 E. McNEAL ST.
MILLVILLE, N. J.

MARINE TOILETS

Marine toilets are available in two models, either hand or electric-operated, both with factory-sealed pump shaft to eliminate leakage problems. Features include built-in safety valves that allow installation below the water line. Conversion unit is available for changing hand toilet to electric-operated model, and Raritan Electro-Chemical Chlorinator unit can be installed with either model. Company also offers an all-electric toilet, with all-bronze power unit.

●

THE REX CORPORATION
HAYWARD RD.
W. ACTON, MASS.

REX BOAT WINDSHIELD GASKETS

Company offers PVC windshield gaskets.

REX BOAT BUMPERS

Several types of PVC boat bumpers are available.

●

REXO-THERM, INC.
986 E. OGDEN AVE.
NAPERVILLE, ILL.

SVEA ALCOHOL RANGE

Alcohol range has adjustable potrails, flame regulator with complete shut-off, and nickel-plated tanks with indicators showing fuel level. Range is 5⅝"x11⅛"x23" without extension. Extension is 4½".

●

RITTER MARINE MFG. CO.
120 WALKER ST., NEW YORK 13, N. Y.

MARINE FITTINGS

New item is bottle holder adapter for the line of gimbal rings. Model No. 414T consists of clamp for table or arm rest mounting and gimbal ring, and No. 414BH, support for the bottle. All units of solid brass construction, chrome plated, and with universal swing to keep bottle upright under any conditions. Price: complete unit, $4.50; same unit for bulkhead mounting, $3.95.

●

ROCHESTER ROPES, INC.
CULPEPPER, VA.

TILLER ROPE

All types of rope for marine use: nylon and plastic-coated tiller ropes, stainless steel rigging ropes and galvanized aircraft cable. Featured is tiller rope composed of a galvanized carbon steel cable 3/32" in diameter and coated with either nylon or polyvinyl chloride. Nylon-coated available in 3/32"x5/32" and 3/32" x3-1/16" sizes, and polyvinyl chloride-coated in 3/32" x 11/64".

●

RUBBERMAID INC.
WOOSTER, OHIO

FLOOR DECK MATS

Mats have ribbed design for fast draining and quick drying. Compound resists oil, grease and salt water. Prices: front deck mat, 18" x 36", $6.50; rear deck mat, 24" x 45", $11.95.

●

RUBBER PRODUCTS CO.
CLEVELAND, OHIO

BOAT RUB RAILS

Rub rails are made of colored marine rubber and anodized aluminum, and available in two standard designs. Company also manufactures moldings, dock bumpers, boat trailers and other marine rubber specialty products.

●

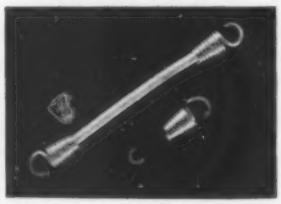
JOHN E. RUGGLES
P.O. BOX 712
NEW BEDFORD, MASS.

RUGGLES NYLON ROPE

Made of the finest virgin du Pont nylon, Ruggles nylon rope contains high abrasion resistance, good flexibility and is available in diameter sizes of ¼" to 1". Price ranges from $7 to $98 per 100'.

●

RUSSELL MFG. CO.
400 E. MAIN ST.
MIDDLETOWN, CONN.



ELASTIC MARINE CORDS

Elastic cord, available in rolls in diameters from 3/16" to ¾", is resistant to both salt and fresh water and other forms of marine rot, and is made with multiple strands of rubber thread protected with a double braided cover of glazed yarn. Cord permits stretching up to 150%. Terminal fasteners and locking rings with galvanized finish are available for ⅜", ½" and ⅝" diameter cords.

●

SCOTT PORT-A-FOLD, INC.
757 MIDDLE ST.
ARCHBOLD, OHIO

PORT-A-JOHN

Portable folding toilet has ¾" tubular aluminum frame capable of supporting a 300-lb. person, and full-sized standard height seat of molded wood with white plastic finish. Disposable plastic bags attach to poly-plastic ring beneath seat by a draw string, and 6 bags are packed with each seat. Extra bags available in dozen lots.

●

SEA MATE PRODUCTS
CLARK SUMMIT, PA.

RUNABOUT RAIL

Constructed of strong ⅛" wall aluminum pipe rails sheathed in White Vinyl. Fittings are high strength aluminum alloy castings hand polished and heavily chrome-plated. Two sizes will fit most boats in the 14' to 22' range.

●

SHAW & TENNEY
20 WATER ST.
ORONO, ME.

OARS AND PADDLES

Ash oars and paddles are available in a variety of sizes and styles.

●

AGNER SIMPLEX CO., INC.
BURLINGTON, WIS.

SIMPLEX OARLOCK

Universal actuating oarlock is made of zinc-plated steel, with socket which bolts into boat of cast aluminum-alloy. Prices, oar locks only, $1.98 pair; sockets only, $1 pair.

●

LAWRENCE STAHL & CO.
P.O. BOX 561-31 RIVERSIDE AVE.
RIVERHEAD, LONG ISLAND, N. Y.

MARINE TOILET

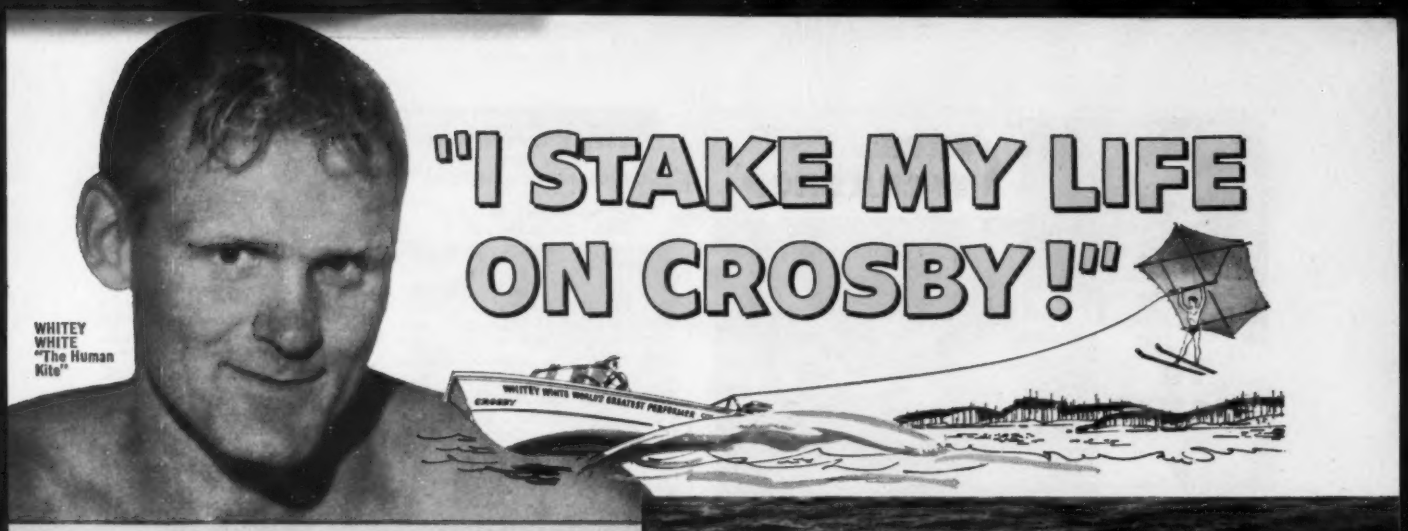
The Raritan Electric Marine Toilet is easy on the battery and in case of power failure, a removable bolt converts the unit to hand use in less than 2 minutes. Safety check valves insure safe below the water line installation, drain plug empties the unit for storage. Raritan Electric Marine Toilets are built with standard electric motors in 6, 12, 24, and 32 volts. An electro-chemical chlorinator is also available, along with Wix Galley Maid water heaters to add to the comfort of the cabin.

●

STANDARD MARINE PRODUCTS CO.
3724 MERRICK ROAD
SEAFORD, L.I., N.Y.

HAND WIPER

A flip type triple chrome plated handle moves blade swiftly and easily. Unit can not jam or seize. Non-corrosive. Price, $6.75. Standard Marine Products Co. manufactures a complete line of marine hardware and accessories. They specialize in windshield accessories.



"I STAKE MY LIFE ON CROSBY!"

"In my act, I crack-the-whip 150 feet over the heads of my audience. The tremendous strain and the whipping line would beat most boats apart, or cause them to swerve and capsize . . . but never my CROSBY," says Whitey White, the "Human Kite."

CROSBY's styling and performance have everyone soaring with enthusiasm. Even though you'd rather fish, cruise, or ski instead of "kite," get the quality that champions choose . . . CROSBY. You'll have magnificent maneuverability . . . soft, spank-free ride . . . tight, skid-free turns . . . the most beautiful boat on the water.

And CROSBY's GOLDEN FLEET for 1960 flies new colors. The soft golden cast of the hull is accented by four new hues . . . Cork . . . Gull Gray . . . Pacific Green . . . and Coral Red. These bring Crosby's sleek sea-styled clipper lines beautifully to life.

So follow the lead of champions . . . lead with a CROSBY. Ten strikingly new models to select from, including cabin cruisers. See them at your CROSBY dealer or write for a colorful catalog.

17' FISH-N-SKI. Sports two aft-facing seats . . . ideal for skiing, fishing, and camping. 79½" beam. Transom accommodates single or dual motor installations. Maximum recommended horsepower . . . 100.

19' RANGER. Hardwood stringers crisscross the strong fiberglass bottom to give this deep-water craft non-flexing rigidity . . . spacious cockpit. 91" beam. Transom accommodates single or dual motor installations. Maximum recommended horsepower . . . 150.

PHOTOS—FLORIDA SILVER SPRINGS

CROSBY

GOLDEN FLEET

America's finest fiberglass fleet

CROSBY AEROMARINE COMPANY, INC. • GRABILL, INDIANA • DONALSONVILLE, GEORGIA
Division of Archer-Daniels-Midland Co.

CROSBY AEROMARINE COMPANY, INC.
Dept. PB20
Grabill, Indiana

Please send me your catalog on the 1960 CROSBY GOLDEN FLEET.

Name_____

Address_____

City_____ State_____

FROM WORKSHOP

TO WAVES

Sailfish kits are fun to build ...even more fun to sail!

Crafted of same selected materials as factory-finished SAILFISH and SUNFISH, Alcort kits are truly complete, require no special tools or skills. Kit prices start at $187—a fun-filled project for the whole family!

SEND COUPON FOR NEW COLOR FOLDER

ALCORT, INC., Dept. PB-20, Box 1345, Waterbury, Conn.

Gentlemen: Please send me your new SAILFISH—SUNFISH color folder.

Name.....

Address.....

City.....Zone.....State.....

1960 "NORWALK 28"

A Larger, Most-Comfortable

Family Cruiser ONLY $6900

Complete Standard Equipment

Length	28'	Freeboard Aft	38"
Beam	10'6"	Cabin Length	12'6"
Draft	28"	Cockpit Length	10'4"
Freeboard Forward	50"	Headroom	6'3"

Engine: Chrysler 125 HP—Hydraulic Controls Sound Proofed.

The "NORWALK 28" is designed to be a fast, dry, safe cruising craft —Vee bottom lapstrake construction. For your utmost comfort she features enclosed marine toilet, completely equipped galley, convertible dinette, berths for sleeping 6 and loads of stowage space. Speeds 30 MPH level riding. See the "NORWALK 28" for yourself—there is no other craft afloat that offers so much so economically.

AVAILABLE WITH TWIN 110 HP CHRYSLERS.....$7,900

AND THE "NORWALK 24" Only $4750

The Norwalk Boat Works & Marina, Inc.

160 Water St. South Norwalk, Conn. Phone: Temple 8-2301

Send for FREE BROCHURE and Used Boat List

NORWALK BOAT WORKS

WILLIAMS MARINA
3594 Ocean Avenue, Seaford, Long Island, N. Y.

West Coast Distributor
GOLDEN BEAR MARINA
294 Taylor Road
Bethel Island, Calif.

BAY STATE BOAT CO.
29 Main Street
Cambridge, Mass.

"See Us at Booth D-49-B New York Boat Show"

SUBURBAN MARINE GAS SERV. DIV.
SUBURBAN PROPANE GAS CORP.
WHIPPANY, N.J.

GAS COOKING KIT

Two-burner gas cooking kit consists of Galley Chef gas range, 5-lb. refillable Suburban Marine cylinder of propane, copper tubing, gas regulator with gauge, wrench and tank connector. Also available is "Built-In" two-burner gas range unit for installation in galley counter top, as well as three- and four-burner units, 10 gal. automatic gas water heater and other galley equipment.

SUDBURY LABORATORY
SUDBURY, MASS.

CABIN HEATER

Aluminum heater is portable, with all openings protected with safety screens which will not allow flame to pass through. Unit is 6" square and 24" high, and can be hung from ceiling to prevent upsetting. Price, $24.95.

ELECTROLINE PRODUCTS
SUPERIOR SWITCHBOARD & DEVICES CO.
BOX 590, CANTON 1, OHIO

WIRE ROPE FITTINGS

Electroline Wire Rope Fittings can be installed with ordinary tools, no heat or acids are required. Fittings are made for wire rope sizes from 1/16" to ¾". Available in stainless steel, bronze, galvanized or cadmium plated steel.

SWAN ENGINEERING CO.
22-58 NELSON ST.
BLOOMFIELD, N.J.

TUBULAR BRIGHTWORK

Swan Engineering offers a complete line of stainless tubular brightwork including custom pulpits, standard bowrails, flying bridge rails, standard ladders, deck rails, stern rails, and stanchions. Complete walk-around protection is achieved and installation is fast and easy.

N. A. TAYLOR CO., INC.
GLOVERSVILLE P-55, N. Y.

WINDSHIELD WIPERS

Wipers available include electric and remote hand models, with all parts of anti-corrosive metals. Deck mount electric model has 11" contour blade with adjustable stainless steel arm. Frame model for conventional installation in wood framed windshields is also available, both with sealed 12 volt motors. Remote hand-wiper has blade and arm mounting at base of windshield and connecting to torque arm with flexible coupling. Torque arm connects to handle on dashboard.

A. W. THACKER CO.
CLERMONT, FLA.

TILLEY HEATER-LANTERN

Made in England, the Tilley Combination Heater-Lantern takes the chill off a cold evening and with the conversion head, floods your boat with 2,000 CP of light. Operates on kerosene. Price, $29.95.

TRICO PRODUCTS CORP.
817 WASHINGTON ST.
BUFFALO 3, N. Y.

MARINE HAND WIPER

The well-known manufacturer of windshield products is offering this Marine Hand Wiper at $7.50.

CHARLES ULMER, INC.
CITY ISLAND, N.Y.

PIMM SHEET

Line will not stretch, shrink, kink or twist and will stay pliable when wet with either salt or fresh water. Available in all sizes, either all Dacron (outer braid and core) or cotton.

UNITY MFG. CO.
2909 INDIANA AVE.
CHICAGO 16, ILL.

CHIEFTAIN AND DEFENDER MIRRORS

Chieftain is fully adjustable, with double shell construction and nylon shoulder joint. Defender has sleek low look, is completely adjustable and universal. Durable hand finish. Prices: Chieftain, $4.60; Defender, $7.75.

VAC-U-MATIC CORP.
30 MOTT ST.
OCEANSIDE, N. Y.

BOW RAIL

Rail has adjustable swivel tees and allows uprights to slant in any direction to complement lines of boat. Sections can be added any time to build a walk-around deck rail. Prices: Chrome, $69.50; Stainless steel, $79.50.

VOLLRATH CO.
SHEBOYGAN, WISC.

STREAMLINED VENTILATOR

Stainless steel ventilator for cabin top has screened opening against flies and insects. Base is 6" x 7", and height is 3½". Price: $24.15. Also available are side vents of stainless steel, 9¾" x 4½", with 4" x 1¾" opening. Price: $17.75 per pair.

WALSTROM PRODS., INC.
HARBOR SPRINGS, MICH.

DINGHY DAVITS

Davits, cantilevered horizontally from transom, follow sheerline of boat, keep dinghy out of the way when not needed. Dinghy is secured below deck level. One person can lower dinghy. Can be used on any type of transom, sloping either forward or aft. Adjustable for vertical angle, length, reach, and beam of dinghies up to 15 feet long with a 52 inch beam. Support up to 1,800 lbs.

WEST PRODUCTS CO.
BOX 797, NEWARK 1, N.J.

SEA/LINE

Sea/Line nylon rope sells for 12 cents per linear foot with a test strength of 5,030 lbs. in 7/16" diameter. This Du Pont nylon rope competes in price and strength with manila rope. Du Pont dacron rope is offered at slightly higher prices.

ANCHORS & MOORINGS

ANCHORMATIC CO.
LAKE OZARK, MO.

ANCHORMATIC

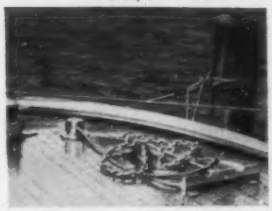
Anchormatic completely automates the anchoring procedure. For use in fresh or salt water. Suitable for boats from 3′ to 40′. Features safety clutch, power unit, automatic chain washer, automatic control, stiff-leg support, and extending hawspipe. Model 30A priced at $595.

BENSON'S ANCHORS, INC.
316 S. ORCHARD RD.
SYRACUSE 4, N. Y.

PONTOON ANCHOR DAVIT

Pontoon anchor davit is made of rust-proof aluminum and permits safe stowing of anchor under decking, leaving topside clear. Line slides over stainless steel roller. Company also designs and manufactures anchors, anchor davits, deck chocks, line guides and power capstans.

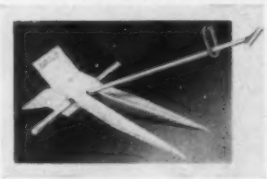
CAMPBELL CHAIN CO.
YORK, PA.



RED KOTE ANCHOR CHAIN

Chain is furnished in two sizes, ¼″ x 6′ and 5/16″ x 6′, with each link encased in rubber. Chains are complete with oversized links on each end for shackle insertion, and will not mar decking. Prices: ¼″ chain, $9; 5/16″ chain, $10.

DENNIS CO.
212 THIRTEENTH ST., N.E.
CANTON 4, OHIO



DENNIS SELF-LOCKING ANCHOR

Features of self-freeing anchor include movable handle, free-sliding ring and flukes designed to lodge in mud, sand or rock. Anchors are hot dip galvanized. Prices: Model A4, 4½ lbs., $6.50; Model A8, 8 lbs., $11.50 and Model A13, 13 lbs., $16.50.

HOMEPORT PRODUCTS CO.
STATEN ISLAND, N. Y.

MONEL MOORING PENNANT

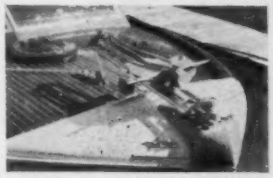
Used for mooring a boat offshore, the pennant is the only line which ties the boat to its permanent anchorage. It leads from the boat deck to the iron ground tackle attached to the anchor. The Monel alloy mooring pennant is as strong as steel and will resist corrosive elements. Withstands strains of 7,600 lbs.

MAGIC TOOLS, INC.
991 WILLIAMS ST.
SAN LEANDRO, CALIF.

ANCHOR RETRIEVER

The anchor retriever may be used with any anchor with a flat or round shank to one inch. It makes the retrieving of anchors easy, as it slides along the shank allowing the anchor to be pulled out backwards. The retriever makes a chain unnecessary. Weight of retriever, 6 lbs., price $4.95. Anchors are available in several sizes in aluminum or steel. Priced from $7.95 to $17.95.

MARWAL PRODUCTS CORP.
17 CLARENCE AVE.
BUFFALO 15, N.Y.



MARWAL ANCHORMAN

Two-speed all-purpose reel and automatic davit is available in two sizes, for boats up to 20′ long, and up to 40′ long. Materials used in construction are stainless steel and anodized aluminum alloys, and reels can be operated with a variety of ropes, such as nylon, polyethylene, stainless steel or monel wire rope. Prices: Model 250—reel, $115; Model 20—davit, $135; Model 500—reel, $135 and Model 40—davit, $145.

WILCOX-CRITTENDEN DIV.
NORTH & JUDD MFG. CO.
MIDDLETOWN, CONN.

CQR PLOW ANCHOR

CQR plow anchor is made of Federated Tenzaloy, a high-strength, self-aging alloy, and is available in three sizes, 4½ lbs., 7 lbs. and 14 lbs.

Rough Going! or Smoooth?

Honestly our '60 hulls are like last year's models. Why change when you're right? But new styling greets the eye, new decorator type upholstery; new comfort and color.

54 miles off shore, our 20′ competing as the first outboard ever in Atlantic City Tuna and Marlin Tournaments. Six days of perfect performance against boats twice as big.

Our new 14′ model with front and rear walk thru seat backs. Striped deck, panoramic windshield, red and white cushions silver trimmed, plastic painted floorboards in matching red.

GO Sea Mac

All pictures show more paint than construction or finish. So before you buy, see for yourself our line and compare it for value with any other. Experienced buyers buy Sea Mac.

FREE FOLDER ON REQUEST

Sea Mac BOATS
RIVERSIDE, NEW JERSEY
MAKERS of FINEST QUALITY BOATS 8′ to 20′

I see more
Whitehouse
boat bottoms
than any
other
brand.

ONEIDA MACHINE TOOL CORP.
320 E. WALNUT ST., ONEIDA, N. Y.

NOMAR ANCHORS
Plastic coated, bright orange color, modified Navy type design. Prevents marring of hull and deck, quieter stowage, no rusting, cleaner and easier to store. Model A-5, 5 lb., $5.75; Model A-10, 10 lb., $9.00; Model A-15, 15 lb., $12.00.

ROSSELLE ANCHOR
126 S.W. 2nd ST.
MIAMI, FLA.

SAFETY ANCHOR
Rosselle offers a complete line of anchors ranging from 3 lbs. to 60 lbs. and priced from $5.40 to $59.80.

RUBBERMAID INC.
WOOSTER, OHIO

MOORING SNUBBER
Mooring Snubber of special rubber compound absorbs rope strains caused by water swells and is tested to 2000 lbs. per sq. inch tensile strength. Resists salt water, oil, or acids. Price: $2.95.

PHILIP SPILKER
6 SINCLAIR ST.
FARMINGDALE, L. I., N. Y.

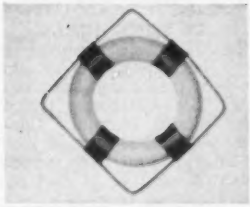
ANCHORS AND CHOCKS
High grade standard steel anchors ranging from 4 lbs. to 55 lbs., featuring a center section used as a trip. Chocks are of non-corrosive stainless steel, available in both unpolished and polished chocks. Prices: Anchors from $6.50; chocks from $5.50.

STOKER LUMBER CO.
NEW PARIS, IND.

ANCHOR PULLEY
Designed to keep anchors from swinging against bow and lengthens life of anchor rope. Automatic, free running. Locks instantly when user lets go of rope. Made of cast aluminum. Price, $9.80. Small models of the anchor pulley are available.

LIFE PRESERVERS, DOCK & FLOTATION EQUIPMENT

ALLAN MARINE, INC.
325 DUFFY AVE.
HICKSVILLE, N. Y.



FOAM LIFE PRESERVERS
Made of tough, light-weight poly-foam that stands up under constant usage. Grab line is of long-wearing polyethylene rope. Price No. 2566—15", $5.95; No. 2567—18", $6.95.

AMERICAN PAD & TEXTILE CO.
GREENFIELD, OHIO

LIFE VESTS
Full line of life vests, cushions, ski belts, skis and ski accessories, floats, buoys, men's ladies', and children's wear, sleeping bags, hunting and fishing wear and accessories, etc. Complete catalog on request.

ACCESSORIES
Boat cushions, caps, covers, life preservers, fenders, marine clothing, fishing accessories, sleeping bags, water skis, etc.

FEND-AIRE DIVISION
BARBERTON PLASTIC PRODUCTS, INC.
BARBERTON, OHIO
248 ROBINSON AVE.

VINYL BOAT FENDERS
Vinyl boat fenders have thick walls and are of one-piece construction. Available in five sizes. Prices: 2" x 13", $1.95 each; 3" x 14", $3.95 each; 4" x 18", $7.45 each; 5" x 24", $9.95, and 8" x 30", $25.95 each.

BURLINGTON MILLS, INC.
BURLINGTON, WIS.

"PERMABUOY CAPS"
Line of "Permabuoy Caps" products available includes ski and swim belts, life preserver vests for adults and children, boat fenders, dock bumpers and floats and buoys, all of soft, flexible polyethylene foam. Also available are molded mooring buoys, ring-type life preservers, and several types of floats made of more rigid plastic, Pelaspan.

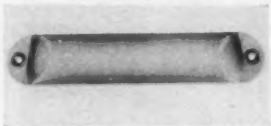
B. T. CRUMP CO., INC.
5401 STAPLES MILL RD.
RICHMOND 13, VA.

LIFE VEST #C-42
Life vests are filled with new Kapok electronically sealed in vinyl plastic cells, are covered with Indian orange fabric, and have adjustable web straps. Available for children under 50 lbs., children 45 to 90 lbs., and adults over 90 lbs. Vests are USCG approved, as are other models of life vests available.

DEFENDER TEXTILE CORP.
380 BROADWAY
NEW YORK 13, N. Y.

SAFETY EQUIPMENT
Equipment includes life preservers, kapok jackets, water silk belts, ring buoys and cushions. Tote bag is also available.

DENNIS CO.
212 THIRTEENTH ST., N.E.
CANTON 4, OHIO



BOAT FENDERS
Fenders are of plastisol vinyl and available in 2 sizes, 3"x16" and 4"x20". Fenders will not rot, mildew nor become water-logged, and have brass grommets at each end. Prices: $4.25 and $6.95.

FREDERICK-WILLYS CO.
2233 UNIVERSITY AVE.
ST. PAUL 14, MINN.

RING BUOYS
The ring buoys are available in 15" and 18" outside diameters and combine the use of heavy braided polyethylene rope and expanded polyethylene foam.

GENTEX CORPORATION
450 SEVENTH AVE.
NEW YORK, N.Y.

RACING LIFE JACKET & HELMET
Racing life jacket is of permanently buoyant unicellular plastic and is designed to turn wearer face-up in water automatically. Full body protection is provided, and shrink-proof webbing and lacing holds firm under impact. Jacket is washable, non-absorbent, and is unaffected by oil, gasoline or water. Coast Guard approved. Price, $39.95. Racing helmet is said to surpass government safety specifications for static loading, penetration, impact and fire resistance. One-piece molded fiberglass design is padded with shock-absorbing vinyl foam. Price, $90. Visor optional.

LINWOOD OUTERWEAR, INC.
407 N. 8TH ST.
ST. LOUIS 1, MO.

BABYBUOY
The Babybuoy is a ring preserver designed to give maximum protection to children while learning to swim. Gives the child firm, natural support needed to alleviate fear of water and gives him freedom of movement. Two sizes are available; the Babybuoy for ages 1½ to 5, and the Juniorbuoy for ages 5 through 7, both priced at $6.95 each.

NOBLE PRODUCTS CO.
CALDWELL, OHIO

LIFE PRESERVERS
Stock includes motorboat buoyant vests, U. S. C. G. approved for use on motor boats of class A, 1 or 2. Exterior is durable cotton fabric with ties and straps. Each vest packaged in a reusable plastic bag. Jacket type life preservers include balsa wood preservers, cork preservers, children's swim vests, racing vests, ski belts and buoyant cushions. All are in attractive colors.

PETERS AND RUSSELL, INC.
517 W. LIBERTY ST.
SPRINGFIELD, OHIO

"MOORING MAGIC" BOAT BUMPERS
Par-Air pneumatic bumpers are of vinyl and can be hung vertically, horizontally or in

any combination without retying. Resiliency can be varied as desired. Available in four sizes. Prices: 2½" x 8", $1.85 each; 4" x 12", $4.25; 6" x 15", $6.75, and 8" x 20", $14.50. Inflating pump is included when bumpers are purchased in sets.

●

PLASTI-KRAFT CORP.
OLDSMAR, FLA.

RAFTS AND BUOYS

Lightweight, durable equipment of fiberglass, polyethylene, nylon and other special materials. Rot and mildew-proof, maintenance free. Available in a variety of sizes and capacities. Buoys are priced from $6.95 to $25.90.

●

RED HEAD BRAND CO.
4311 BELMONT AVE.
CHICAGO 41, ILL.

VEST PRESERVER

Captain's Plaid Denim is priced at $6.50 for adults, $5.50 for child's medium and $4.60 for child's small. Red Head offers a complete line of life preservers including life jackets and belts for water skiing and swimming. Fillings are of kapok or unicellular plastic.

●

RUBBERMAID INC.
WOOSTER, OHIO

MOORING SNUBBER

Mooring Snubber of special rubber compound absorbs rope strains caused by water swells and is tested to 2000 lbs. per sq. inch tensile strength. Resists salt water, oil, or acids. Price: $2.95.

●

MARINE DIV.
SALISBURY RUBBER PRODUCTS
401 N. MORGAN ST.
CHICAGO 22, ILL.

STANDARD CHAFE-GARD

Standard Chafe-Gard is 14" long and is easily installed on a mooring or dock line while it is in use. Snap it over the line and center it in the chock. Leather thongs prevent shifting. Other lengths are offered along with Dock-Gard and Dink-Gard, which are designed to protect your boat from unnecessary damage due to docking.

●

STAMM BOAT CO.
LAKE NAGAWICKA
DELAFIELD, WIS.

PLAY-BUOY

80" diameter portable floating raft will support 1,600 lbs. and can be anchored through center tube. Raft is water-stabilized to prevent side movements.

●

STEARNS MFG. CO.
ST. CLOUD, MINN.

LIFE JACKET

This life jacket automatically rights its wearer and holds his head above the water. The jacket is made of Ensolite, an extremely buoyant material made by United States Rubber.

●

STERLING PRODUCTS CO., INC.
180 E. 6TH ST.
ST. PAUL 1, MINN.

POLY-FLOAT RING BUOY

Buoy is made of Polyethelene foam secured by heavy canvas webbing, and grab ropes are of yellow polyethelene plastic. Available in two sizes. Prices: 18", $7.95; 15", $5.95.

●

SUDBURY LABORATORY
SUDBURY, MASS.

BOAT FENDER

Fender rides above and outside the rail, floats if dropped overboard, is resilient and impervious to salt or fresh water. Prices: $1.98 and $4.95 for 15" and 17½" models.

●

VANGUARD PLASTICS, INC.
MARINE DIVISION
FREEHOLD, N. J.

FENDER & BUOY

Combination boat fender and pick-up buoy measure 10" x 3" and sell for $1.65 for the luminescent and $0.98 for colors.

●

WINSLOW CO.
MARINE PRODUCTS
BOX 1057, VENICE, FLA.

LIFE VEST

Safety harness with self-inflating collar combines corrosion-proof aircraft hardware and self-inflating life vest. Floats 250 lbs. man. Sold separately; safety harness $16.50 and life vest $9.50. Together $25.00. Ideal for racing crew safety with comfort.

●

HOWARD ZINK CORP.
FREMONT, OHIO

PLASTIC LIFE VEST

A new addition to the long list of Yacht Club Brand Marine Products is the USCG approved Unicellular Plastic Life Vest constructed with plastic sealed air-cells assuring permanent buoyancy.

CANVAS & COVERS, TOPS & WINDSHIELDS

●

BARKER MFG. CO.
10 N. MAIN ST.
HONEOYE FALLS, N. Y.

VOYAGER CONVERTIBLE TOPS & WINDSHIELDS

Convertible top made of marine duck attaches to windshield with dot fasteners, and has frame of polished aluminum tube. Prices from $49. Also available are detachable side curtains. The Topper convertible top is self-supporting and does not attach to rigid windshield, but stands above windshield to allow ventilation through air space in front. Prices from $49. Wrap-around windshield is 18" high, available in clear Plexiglas, and is equipped with chrome fixtures and deck molding. Available in six sizes from 54" to 72" wide. Prices from $42.

●

WILLIAM L. BONNELL CO., INC.
NEWMAN, GA.

BON VOYAGE LEAK-PROOF WINDOWS

Extruded aluminum leak-proof windows are available in three models, one with sliding glass panes, one also with sliding screen, and third with non-sliding panes. Sliding models have channels that drain to outside of window, eliminating need for tubing or notches for draining.

●

CADILLAC PLASTIC CO.
2111 OLIVE ST., ST. LOUIS, MO.

FIBERGLAS HARDTOP

The Surf Line universal hardtop may be installed in less than 10 minutes with simple hand tools. The Fiberglas boat top is fadeproof and requires no maintenance. A special hinge in the Surf Line hardtop permits raising it off the windshield to provide ventilation. The top also tilts back to make getting in and out of the boat easy. Weighs 40 lbs.

●

CAMPBELL MFG. CO., INC.
1345 PLOWMAN AVE.
DALLAS 3, TEXAS

SNUG HARBOR

Combination unit includes convertible boat top of water-repellent and mildew-resistant army duck, with steel frame, detachable side curtains and 18" windshield. Large side curtains have windows of Plasti-Pane. Prices: boat tops, from $59.95 to $62.50; all side curtains, $23.50 a pair, and windshields, $47.50 to $52.50.

●

CANVAS PRODUCTS CO.
10411 CAPITAL AVE.
DETROIT 37, MICH.

CANVAS PRODUCTS

Standard and zip-in convertible tops are available in preshrunk canvas and white vinyl coated automotive convertible topping with a black underside in 6 widths from 52" to 75" in two lengths priced from $54 to $96. A full line of boat covers are offered starting at $14 to $51.

●

CARR FASTENER CO.
CAMBRIDGE 42, MASS.

DOT MARINE FASTENERS

To secure canvas to wood, metal or fiberglass, Carr Fastener Co. has developed a complete line of Dot marine snap fasteners which can be easily attached by the novice or experienced seaman.

●

DEFENDER TEXTILE CORP.
380 BROADWAY
NEW YORK 13, N. Y.

BOAT COVERS

Covers are made of 12 oz. army duck, non-heavily waxed, breathing canvas, waterproof and mildew treated. Sizes of cloths vary from 4½' x 11' to 12' x 30'. Also available are nylon tarpaulins, canvas tarpaulins, nylon and dacron rope, water ski rope of polyethylene, and nylon rope.

●

DEL-TEX MARINE PRODUCTS
AIR ACCESSORIES, INC.
BOX 1440, FT. WORTH 1, TEX.

BOAT WINDSHIELDS

Windshields are available in three basic designs with wide range of frame and trim stylings. Line features special blind mount framing. Company also offers formed plastic interior and dash panels, Del-Aire wing vents and Sea Steward drink tray.

●

EUREKA TENT
AND AWNING CO., INC.
35-37 STATE ST.
BINGHAMTON, N.Y.

UNIVERSAL BOAT COVERS

Covers are complete with windshield and box type motor hood, and available in 7.68 oz. boat drill and 40" 10 oz. army duck, in a choice of five lengths. Prices: from $20.65. Company also manufactures standard and custom-made covers.

WRAP-AROUND WINDSHIELD

Panoramic curved universal plexiglass in 6 widths and 3 heights; equipped with triple

plated chrome brackets, white deck moulding, and chrome trim. Shaped and pre-drilled. Prices from $27.85. Side, center brackets extra.

●

GENERAL TIRE & RUBBER CO.
TEXTILEATHER DIVISION
607 MADISON AVE.
TOLEDO 3, OHIO

NAUTOFLEX

Supported vinyl marine fabric is available in variety of patterns and colors and can be used to cover decking and flooring, cabin interiors and tops and ship sides, upholstery, and as spray curtains, flying bridge covers and decorative inserts. Decking and flooring fabrics will not oxidize, become brittle or crack, chest or blister.

●

HERCULITE PROTECTIVE FABRICS
125 SUSSEX AVE.
NEWARK 3, N.J.

HERCULITE MARINE

All-weather fabric of vinyl-coated nylon is available in roll form for use as boat canopies, side curtains, upholstery and mooring covers. Fabric is mildew- and rot-proof, will not stretch or shrink, and is waterproof and bird-proof.

●

SEABREEZ DIV.
HILL ENGINEERING CO.
516 NORTH STERLING
SUGAR CREEK, MO.

SEABREEZ HARDTOP

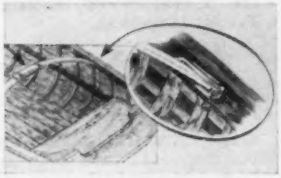
All-weather fiberglass construction. Installation takes 15 minutes. Tilt-back feature. Five sizes are available starting at $115.95.

●

LAFAYETTE SUPPLY CO.
WEST LAFAYETTE, OHIO

BOW SOCKETS

Stamped aluminum sockets are attached to top inside edge of gunwale opposite each other with screws that are furnished. 2 to 4 pair of these boat cover sockets are needed, depending on the size of boat. Can also be used on a trailer or small truck. Available in natural aluminum or anodized aluminum in the colors of blue, green, and red. Price, $1.00 pair.



ADJUSTABLE COVER BOWS

Two sizes, one adjustable to 68", the other to 92". Bows support cover to assure a dry boat. Adjustable feature allows user to cope with shrinking or stretching of the canvas cover. Unit consists of two pieces of select lumber and two small especially-designed steel clips with cadmium-plated tension spring. Metal clips lie flat against wood bows and will not wear the boat covers. Prices, $1.35 and $1.85.

●

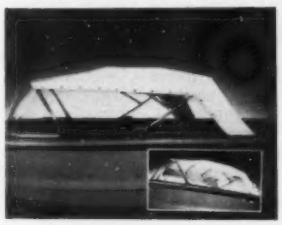
NU-TOP SALES CO.
BALDWINSVILLE, N. Y.

PLASTI-TOP HARDTOPS

Plasti-Top Hardtops are made of durable fiberglass and are available in five popular widths to fit all windshields and boats with standard decks. Can be removed for open boating in minutes. A complete line of folding tops of three-ply rubberized fabric is also offered.

●

REGAL INDUSTRIES, INC.
2551 23RD AVE. SOUTH
MINNEAPOLIS 6, MINN.



DEBONAIRE

Deluxe top has three-bow assembly to eliminate dips, and is made of white, plastic-coated material and polished tubular aluminum. Full assembly includes top, windshield, full all-vinyl side curtains and zippered entrance doors. Company also offers conventional styling in series of three tops, Corsaire Deluxe, Corsaire Custom and Corsaire Standard, as well as economy tops, Regal Electra, both deluxe and standard.

●

STERLING PRODS. CO., INC.
100 E. SIXTH ST., ST. PAUL 1, MINN.

BOAT AND MOTOR COVERS

Polyethylene boat covers in

EVEN IN DAMP WEATHER!

Easier TO APPLY
Faster TO DRY
Durable...ALWAYS

"OUTSHINES" ANY OTHER SPAR VARNISH

DOLFINITE
1100 SUPER SPAR VARNISH

Preferred by leading boat manufacturers and experienced boat owners who take extra pride in top-side appearance.

This fine spar varnish has double value . . . unmatched lustrous beauty plus greater durability which also make it really the most economical to use.

So, for that "new boat look" all season long insist on Dolfinite 1100 SUPER Spar Varnish.

Ask your Dolphin Paint Dealer or write us for complete information.

THE DOLPHIN PAINT & VARNISH COMPANY
911 LOCUST STREET • TOLEDO, OHIO
DO IT RIGHT WITH DOLFINITE

1100 Super Spar Varnish is only one product in the famous Dolfinite family of fine marine paints, bottom finishes, varnishes, compounds and special finishes in easy to use pressure spray cans.

sizes 12′ to 21′, priced from $8 to $21. Also available: canvas boat covers, vinyl motor covers, accessories, water skis, tow rope, boat house kit. Of special interest is a solid aluminum transom plate for various motor installations, $1.85 to $5.

●

N. A. TAYLOR CO., INC.
14 W. 9th AVE., GLOVERSVILLE, N. Y.

SPORTOP

The SporTop is universally fitting and is made of white Vivatex Army Duck with white vinyl covered frames and chrome hardware. Deluxe models are of new candy square plaid Vivatone.

BOAT COVERS

Stock models available for boats with or without a windshield. Made from 10.10 oz. U. S. Army Duck, "Vivatex" treated for weather resistance. Aqua Grey color. Double lockstitched with Orlon thread. Also motor hoods. Prices start at $28.75. Flags and pennants also available.

SPORTSHIELD

Plexiglas windshield available in 12″, 15″, 17″, and 20″ hts. In varying width wing tips. Priced, from $26.95. Free catalog available.

●

WATER BONNET, INC.
P. O. BOX 5296
ORLANDO, FLA.

BOAT TOPS

Tops are available in "flexible-fit" sizes and in 5′ and 7′ lengths. Features include "zip-flap" on the Sports Queen, and various popular models have been redesigned and refitted, as well as new sizes added to the line.

WINDSHIELDS

Line of "Ful-Vew" windshields now features slight compound curve or semi-bubble, and a ¾″ heavy metal top trim. Company also offers all hardware for tops and windshields, Permatex windshield cleaner, clear waterproofing, beverage holders, a boarding ladder in three sizes and a complete windshield cleaner kit, including scratch remover.

BOAT SEATS

●

ALSTON ENTERPRISES
2971 HARRISBURG RD., N.E.
CANTON 5, OHIO

RIVIERA MODEL 20-R

Swivel seat is designed to fit all tank-type seats, and has 14½″ x 16″ foam rubber seat, with steel frame and carriage. Clamps are covered with Paratex rubber. Price: $20.95; also available is Model 020-R, without arm rests, $15.95.

●

BILLY BOY PRODUCTS
44 E. CHICAGO AVE.
QUINCY, MICH.

BILLY BOY DECK CHAIR

The lightweight folding deck chair with frame of aluminum tubing is designed with a low center of gravity and front legs radiused for greater stability. 21″ x 17″ leg spread, 25″ back height and 14″ seat height make it ideal for small boats.

●

COMFORT CO.
200 SO. 7th ST., ST. LOUIS 2, MO.

MODEL NO. 556 PILOT CHAIR

Has seat size of 17½″ wide and 16½″ deep. Both seat and arms cushioned with 2½″ molded foam rubber. Back size is 13″x 12″ cushioned with 1½″ foam rubber. Seat back and foot ring are adjustable. Seat adjustable from 22″ to 31″ from deck. Foot ring adjustable from 3″ to 10½″ from deck. Seat back and arms are covered with Naugahyde perforated for coolness. Standard colors red, blue or green. Steel frame finished in neutral gray. Model 55, without arms, also available.

●

DENNIS CO.
212 THIRTEENTH ST., N.E.
CANTON 4, OHIO

SEATS

Line of seats includes models for clamping on boards and flotation tanks, some in swivel style. Frames are metal, covers in variety of materials. Prices: from $4.95.

●

GARELICK MFG. CO.
ST. PAUL PARK, MINN.

GARELICK HELSMEN SEAT

Folding seats have seat and back covers of "Royalite," with polyurethane padding. Models are available with chrome, brass or anodized aluminum hinges, and four different seat widths as well as swivel units.

●

GENERAL TIRE & RUBBER CO.
607 MADISON AVE.
TOLEDO 3, OHIO

NAUTOFLEX SUSPENSION SYSTEM

Torsion seat suspension system action starts at 120 lbs. and maximum torque is reached with 600 lb. load at 42°. Molded aluminum arm is mounted in extruded aluminum housings. Height of unit is 4½″.

●

GOLD MEDAL FOLDING FURNITURE CO.
1700 PACKARD AVE.
RACINE, WIS.

NO. 35Y YACHT CHAIR

This traditional chair is featured with new sloping and shaped arms and is available in zinc plated steel, brass, or chrome plated brass hardware, mahoganitone finish over select hardwoods, built-in rubber cushioned feet and available in choice of canvas covers in khaki, green, blue, yellow, or red, with yacht insignia on the back cover. Prices range from $17.80 to $27.80 depending on type of hardware.

●

HIMALAYAN PAK CO.
MONTEREY, CALIF.

CREW SEAT

Foldaway chair has anodized aluminum frame and navy blue duck fabric. Price, $8.95.

●

LAFAYETTE SUPPLY CO.
WEST LAFAYETTE, OHIO

ESCORT DECK CHAIR

Aluminum deck chair is of 1″ O.D. aluminum tubing and has weather-resistant canvas seat, and folds for storage. Price: $8.95.

●

M & G SHEET METAL CO.
313 VAN SINDEREN AVE.
BROOKLYN, N. Y.

DECK CHAIR

Chair is made of 1″ polished aluminum tubing and has canvas sling seat. Seat folds, and legs are rubber-tipped. Company also offers aluminum boarding ladders, plastic fog horns, hand boat pumps and foam filled buoys.

●

MILWAUKEE STAMPING CO.
MILWAUKEE 14, WIS.

FOLDING TABLE-CHAIR

The handy table and chair combination is ideal for use on boats or for carrying on boats to be used for shore picnics. Folds compactly to luggage size. Four seats in one unit. Price, $32.50.

●

POMPANETTE PRODUCTS
1719 SHENANDOAH ST.
DANIA, FLA.

MODEL P-4 PILOT CHAIR

Chair has chromed brass or anodized aluminum base, swivel and lock, Naugahyde upholstery, and can be mounted on flying bridge or below. Special seat and back sizes, chair heights and colors are available, and chair is offered with or without arms, or one arm, either left or right. Price: $96, with brass base; $78, with aluminum base, both without arms.

SEA-LAWN PRODUCTS CO.
P. O. BOX 716
LONG BEACH, L. I., N. Y.

SEA SKIFF FISHING CHAIR
Chairs are of heavy gauge, polished aluminum, with rubber-tipped feet and brass chrome-plated swivel gimbal. Chairs can straddle storage boxes. Floor area is 17½" x 26". Price, $43.

SCOTT PORT-A-FOLD, INC.
ARCHBOLD, OHIO

HELMSMAN SEAT
Aluminum folding helmsman seat is available for port or starboard mounting, with tubular U-shaped seat support mounting on bulkhead or coaming. Seat is adjustable to height and distance from side of boat, and swivels 360°. Also available as non-swivel model, with or without vertical seat support which rests on cockpit or aft decking. Arm rests optional on all models. Prices: from $46 to $57.50; arm rests, $15; folding foot rests, $19.95.

PILOT SEAT
Pedestal base pilot seat is made of aluminum, has upholstered seat and backrest, and swivels 360°. Seats are available with or without arm rests or folding footrests. Prices: from $91 to $108.50. Foot rest, $19.95.

N. A. TAYLOR CO., INC.
GLOVERSVILLE P-55, N. Y.

SPORTSCHAIR
The new SportsChair is designed for comfort on boats or at the beach. Aluminum construction. Weight 3 lbs. Available in red, blue, yellow or black. Zippered replacement canvas covers are also available.

TELESCOPE FOLDING FURNITURE CO.
GRANVILLE, N. Y.

FOLDING CHAIR
Mahogany stained or natural finish hardwood seat and backs, with brass screws, on a polished 1" aluminum frame fitted with stainless steel and aluminum hardware-fastenings. Price: nat. finish, $20.30; mahogany fin., $23.20.

YACHT CHAIRS
Full line of wood and aluminum chairs, stools, and table, with rubber-tipped legs to prevent marring deck. Wood chairs have mahogany frames, brass and chrome-on-brass hardware, and rubber-tipped back posts; aluminum chairs are smudge and corrosion resistant, mahogany hardwood parts. All fold away for storage. Prices and details on request.

TUCKER DUCK AND RUBBER CO.
515 GARRISON AVE.
FORT SMITH, ARK.

DIRECTOR-YACHT CHAIRS
Folding chairs feature southern hardwood frames and 18 oz. canvas. Standard seat is 16" high, but can be furnished in "lowboy" style for boat use. Frames are either varnished or white lacquered, and steel, galvanized or brass hardware can be specified.

WALTCO PRODUCTS, INC.
4501 SOUTH WESTERN BLVD.
CHICAGO 9, ILL.

TUFTED PAD
The tufted pad is made by vacuum forming heavy gauge vinyl and electronically sealing it to foam cushioning. Three sizes are offered: 24" x 24", 24" x 48" and 24" x 64". Both vinyl outer materials and foam cushioning materials are unharmed by fresh or salt water and cannot mildew or rot. Waltco offers a number of items useful to the boater.

NOW! 2-way radio from $129.75

More than Citizens' Radio . . . a complete fully engineered "industrial-type" transceiver!

VIKING *Messenger*

- **Complete 23 channel Citizens' Band coverage—choose 1 of any 5 channels by the flip of a switch.**
- **Maximum legal power—effective range up to 30 miles over water.**
- **Excellent receiver sensitivity, selectivity—full fidelity voice reproduction.**

Ideal for boat-to-boat or ship-to-shore communications, the Viking "Messenger" offers the finest performance of any Citizens' Radio equipment available. Meets all FCC requirements, easy to install anywhere—offers many unique features found only on more expensive communications systems. Built-in Squelch, Automatic Volume Control, and Automatic Noise Limiter. Compact, modern styling—only 5⅝" high, 7" wide, and 11⅜" deep. Complete with tubes, push-to-talk microphone, and crystals for one channel.

Available from authorized Johnson Electronic or Marine Distributors. Installation and service coast-to-coast at all General Electric Communications Service Stations.

E. F. JOHNSON COMPANY
171 Second Ave. S. W. • Waseca, Minnesota
• Please rush me your full color brochure describing the Viking "Messenger" Citizens' Transceiver.
NAME_____
ADDRESS_____
CITY_____ STATE_____

Manufacturers of the world's most widely used personal communications transmitters

WINCHES & HOISTS

CHISHOLM-MOORE HOIST DIV., COLUMBUS McKINNON CHAIN CORP.
TONAWANDA, N. Y.

LODESTAR ELECTRIC HOIST
Electric chain hoist in ⅛ to 2 ton capacities has push button control, is fully enclosed to protect all parts. Adjustable upper and lower safety limits. Self-adjusting heavy duty brake. Special 30-minute rated, cool running hoist duty motor. Operates on 115 volts.

CYCLONE HAND CHAIN HOIST
Made of aluminum alloy, ¼ to 10 tons capacities. Welded steel load chain furnishes maximum flexibility. Double sealed ball bearings at each rotating point. Quick-acting brake.

CROWELL DESIGNS, INC.
P.O. BOX 21, 2106 BRIDGE AVE.
POINT PLEASANT, N. J.

GEARHEAD MOTOR HOIST
Approximately 10"x4½"x5". A compact, powerful motor hoist with 20:1 reduction drive. Splashproof and sparkproof, it uses all DC voltages. Price, $95.

GEARHEAD MOTOR WINCH
5" high, 4½" wide, 10" long. This splashproof motor has a power ratio of 20:1, ¼ hp DC. It is available in all DC voltages. Price, $95 to $115.

FULTON CO.
1912 S. 82nd ST.
MILWAUKEE 19, WIS.

FREE SPOOLING WINCH
"Free spooling" winch has adjustable roller grip handle with 3-position slide which provides a cranking position and a neutral position where drum will turn or spool freely while handle is safety lock on, and does not spin. Features include 2-way ratchet, brake, double-drive with 5:1 gear ratio and 12:1 gear ratio. Frame is of one-piece pressed steel.

FRED C. GOOD & SONS
521 W. GLENWOOD AVE.
PHILADELPHIA, PA.

GOOD AUTOMATIC WINDLASS
Model A Good Automatic Windlass features built-in running lights as optional equipment. Equipped with flagstaff hole. May be used to pull boat on trailer. For inboards or outboard from 16 to 26'. Other models of automatic windlasses available.

KING MANUFACTURING CO.
3139 W. CHICAGO AVE.
CHICAGO 22, ILL.

9 CAPSTAN
Has 700 lb. pull and is equipped with a 2½ HP engine. Used with manila rope, operator can hold the load, lower the load or pick up the load by tightening or loosening wraps around the spool. Equipped with Briggs & Stratton air-cooled engines in various sizes and electric motors if desired. Unit weighs 226 lbs. and can be equipped with a bronze spool at additional cost. Price, $290.

MANNING, MAXWELL & MOORE, INC.
SHAW-BOX CRANE & HOIST DIV.
MUSKEGON, MICH.

BUDGIT BLOCKS
Budgit Aluminum Chain Blocks are a new concept in spur geared chain blocks. The design is simple, yet efficient and light in weight. All parts including brake are enclosed in a heavy aluminum housing. A complete line of manual and electric hoists are offered by this noted company.

MOTOR SLINGS
These slings are made of Budgit yellow parachute nylon, double sewn for extra seam strength. Heavy duty lifting eyes are cadmium plated to prevent rust. Three types are made to fit popular outboard motors. Prices start at $15.50.

MAR MAR ELECTRIC WINCHES
EL MONTE, CALIF.

MODEL MF 100
Electric winch has heavy duty aircraft motor with 140-to-1 gear reduction, and is fully reversible. Winch will pull over 3,500 lbs. and lift 1,000 lbs. on a 12-volt battery, and also operates on 6-volt battery. All aluminum castings and steel parts are cadmium plated. Also available is Model MF-100A with extended shaft, suggested as a source of electric power. Prices, MF100, about $160; MF100A, $165.

MERRIMAN BROS., INC.
185 AMORY ST., BOSTON 30, MASS.

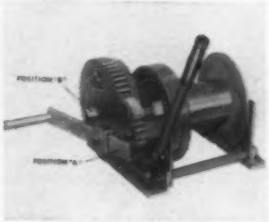
MERRIMAN WINCHES
Winch power for every boat is available with over 40 styles and sizes offered for virtually every requirement. The Flat Top Geared Deck Winch brings in Genoa sheets quickly and easily. A wide range of winches for centerboards, halyards, anchors and general lifting and hoisting are available.

POWERWINCH CORP.
BRIDGEPORT, CONN.

POWERWINCH 712
The end of your boating day is automatically taken care of with a heavy-duty PWH 712. Even a 2-ton craft can be loaded for trailering simply and effortlessly and the powerwinch can be mounted on any trailer. Two models are offered in 6 or 12 volts at prices of $89.50 and $99.50 FOB.

THERN MACHINE CO.
3760 W. 4th ST., WINONA, MINN.

MODEL 50W REEL WINCH
For use as anchor winch or boat winch on light trailers. Holds 190 ft. of ⅛" cable, pulls 500 lbs. Price, $7.70 F.O.B. Winona, Minn.



MODEL 44WB MARINE WINCH
Double-geared marine winch is available with hand brake of the friction drum type, lever-operated off the drive shaft, and has pulling capacity of 2500 lbs. Model is recommended where loads are lowered vertically or near-vertically and must be kept under control by the winch, which can be mounted vertically or horizontally. Features include spring-loaded ratchet safety lock and jaw clutch for free unwinding. Price, $42.60.

PUMPS & BAILERS

KENCO PUMP DIVISION
AMERICAN CRUCIBLE PRODUCTS CO.
1305 OBERLIN AVE.
LORAIN, OHIO

PUMPS
A compete line of submersible pumps are offered covering every marine application.

BEDFORD CO.
CARLSTADT, N. J.

SATELLITE BILGE PUMP
New pump automatically bails boat while moored, with natural wave and wind action of boat against mooring line setting pump in motion. Pump has bailing capacity of 192 gallons during a 24-hour period. Pump is composed of two units, Diaphragm and Bilge Valve, and is resistant to corrosion of salt water, oil and gasoline. Model 900 is recommended for all boats up to 20'. Price, $23.95, Model 900.

BILGE BOY PUMPS
MARION, MASS.

DIAPHRAGM PUMP
A 3' handle operates in a horizontal arc at waist height and exerts a 10-to-1 leverage on a six-inch diaphragm. Will pump a steady 10 gal. per minute. Installation is simple. Price, $49.50.

BLACK PANTHER TOOL CO.
DIVISION OF EZ PAINTR CORP.
4051 S. IOWA AVE.
MILWAUKEE 7, WIS.

VACU-JET BOAT BAILER
Automatic boat bailer and cleaner draws out from 3 to 5 gallons of water a minute, and is made of plastics and clear vinyl tubing. Unit fits any outboard motor except 3 hp Fisherman's Drive, and is simple to install. Price, $2.98.

BURROUGHS MFG. CORP.
MARINE DIV.
3550 TYBURN ST.
LOS ANGELES 65, CALIF.

"HI-GLO" BAILER
Unbreakable and rustproof, will float even when full of water. Also serves as wastebasket, litter bag, or live-bait holder. Flat side fits boat bottoms to make bailing faster and easier, also forms a sharp

spout from which gasoline or oil can be poured into small openings. Molded of pliable polyethylene, will not break, crack, or corrode. Holds approximately 1 quart.

●

CREST MARINE HARDWARE CO.
2222 S. FIGUEROA ST.
LOS ANGELES 7, CALIF.

TRANSOM DRAIN PLUG
The cam-action, positive-locking drain plug opens easily and is simple to install. Crest offers a complete line of bow eyes, step pads and other boating hardware.

●

CROWELL DESIGNS, INC.
P.O. BOX 21, 2106 BRIDGE AVE.
POINT PLEASANT, N. J.

MODEL D PRESSURE PUMP
Length, 14"; width 5½", height, 6½". Capacity to 500 gallons per hour, with pressure setting; *on* 25 lbs., *off* 40 lbs. This self-priming pump uses all DC voltages—⅙ hp, and has positive displacement. Also available in 110 v. A.C. Price, $115. Separate pressure tank necessary, price, $42.50.

●

DE PERSIA
GRAND HAVEN, MICH.

AUTOMATIC BAILER
Mounts on boat bottom near stern, functions automatically by vacuum from boat's movement through the water. Machined aluminum casting, anodized and dichromate sealed. Seal rings and valve seat of Neoprene; solid Polyethlene check ball automatically closes bailer when speed is reduced. Safety cap for securing bailer when boat is on mooring.

●

EDSON CORPORATION
334 S. WATER ST.
NEW BEDFORD, MASS.

HAND BILGE PUMP
Self-priming hand bilge pump has "lever action" and will pump water containing large amounts of sand, wood shavings and other bilge waste, at the rate of one gallon per stroke. Pump is 7"x11"x15", weight 10 lbs., 2" suction and discharge, side or bottom inlet. Price: bronze, $92; galvanized, $68; aluminum, $88.

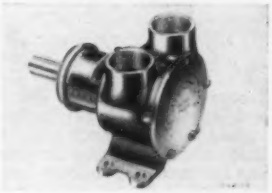
●

ENVON PRODUCTS CO.
4713 MAPLEWOOD DR.
ELKHART, IND.

DRAIN PLUGS
Stainless steel drain plug features adjustable sealing pressure on the neoprene sleeve, and is manufactured in 1" and 1¼" sizes.

●

JABSCO PUMP CO.
1485 DALE WAY
COSTA MESA, CALIF.



SELF-PRIMING PUMP MODEL 7420
Self-priming pump is of bronze construction and designed for foot-mount installation. Pump is equipped with mechanical shaft seal and replaceable seal seat, reversible wear plates, ball-bearing sealed and lubricated. Features include self-priming at all speeds with vertical dry suction lift approaching 15 feet; a neoprene impellor, and unit is designed to operate up to 2450 rpm, delivering 72.5 GPM against a 10-foot head. Dimensions are 6" x 7¾" x 5".

●

LAFAYETTE SUPPLY CO.
WEST LAFAYETTE, OHIO

LAFAYETTE D-6
Hand operated bilge pump. 20 gauge zinc coated steel barrel, length 24", diameter 1½". Weighs 2½ lbs. Capacity of more than 10 gal. per minute. Screw-on top and bottom caps, replaceable leather sucker and check valve of oil-treated leather. Price, $4.25.

●

LITTLE GIANT PUMP CO.
P.O. BOX 7025
OKLAHOMA CITY, OKLA.

ELECTRIC BILGE PUMP
Available in 6 or 12 volt D.C. and 110 volt A.C. models, the Little Giant operates when completely under water. Can be used around the dock as a sump pump, to aerate minnow buckets, and aquariums and for movement of boating fuel in and out of tanks. Price range, $19.95 to $31.95.

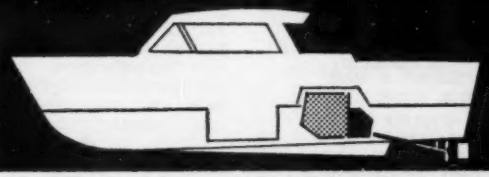
●

LONGPORT MARINE CO.
LONGPORT, N. J.

LOVETT BILGE PUMP
Features large screen area, with capacity of 550 gal. per hour with 3' head. High impact strength plastic to prevent electrolysis, electrical parts sealed from water with air lock. A complete line of

NEW!

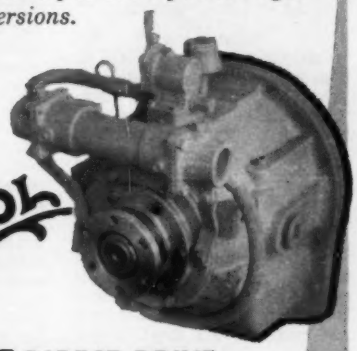
FOR PLEASURE AND WORK BOATS
. . . WITH LIMITED ENGINE SPACE



IT'S HYDRAULIC

. . . for small diesels up to 175 h.p. and larger automobile conversions.

adaptable to all POPULAR ENGINES



The CAPITOL

2HD — DIRECT DRIVE . . .

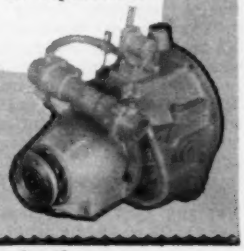
IT'S LIGHT, COMPACT AND ECONOMICAL

with unmatched maneuverability.

This is it . . . for easy control, full power and smooth *economical* performance! The Capitol 2 HD is the shortest direct drive gear made . . . making installation in limited space easier. Available in both standard and heavy duty clutch models incorporating the famous Capitol wet clutch system, case hardened bevel gears and independent lube system. Built by designers of dependable gears for over 50 years.

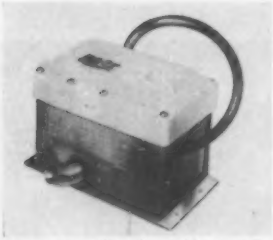
2HD — 8900

reverse and reduction gear provides full forward to full reverse in just 3 seconds! Available in standard clutch model only in ratios 1½-2, 2½ and 3-1.



Write for complete details to:

CAPITOL GEARS
AUTO ENGINE WORKS, INC.
343A No. Hamline Avenue • St. Paul 4, Minnesota



manual and automatic pumps are offered including shower sump pumps and outboard bailers.

●

MERRIMAN BROTHERS, INC.
185 AMORY ST.
BOSTON 30, MASS.

GIBB SELF-BAILER

Bailer operates at speeds of approximately 3 mph and up, and has lever that locks bailer in closed position when at moorings or at low speeds. Fitting is flush with hull bottom when closed.

●

MOELLER MFG. CO.
2405 DURAND AVE.
RACINE, WIS.

BOAT BAILER PLUGS

The Snap-Tite boat bailer plug priced at $2.05 and the Turn-Tite, $1.95 come complete with brass drain tube, safety chain and instruction sheet.

●

R. C. MOLDING, INC.
112 S. SIXTH ST.
NEW HYDE PARK, N. Y.

BAIL-KWIK

Tenite polyethylene plastic scoop has wide-mouth, and handle on back. Bailer will not rust and will float. Price, $1.98.

●

WILCOX-CRITTENDEN DIV.
NORTH & JUDD MFG. CO.
MIDDLETOWN, CONN.

HI-CAP ELECTRIC BILGE PUMP

Design permits easy mounting exterior from the bilge to insure complete safety and freedom from flooding and electrolysis. Suction intake may be placed at lowest bilge level, regardless of clearance. Maximum flow of 6 gal. per minute, 15 lbs. maximum pressure, 10′ lift. Available for 12 or 6 volt systems.

●

PETERS AND RUSSELL, INC.
517 W. LIBERTY ST.
SPRINGFIELD, OHIO

"GALA" GALLEY AND LAVATORY PUMPS

Pumps are of brass with chrome spout, neoprene piston and valve. Available in 6 models. Prices: from $9.60 to $15.

"SUPAR SUCKER" CAN-TOP CLEANOUT PUMP

Fits onto neck of 5-gal. or 2½-gal. cans and discharges directly into the can, eliminating dripping. With hose and draw tubes, $7.50. Supar Fuel-er is similar, but with reverse pumping action to fill tank direct from gas can, and eliminate splashing and fire hazards. With filler hose, $7.50.

●

PLASTIMAYD CORP.
2204 S.E. SEVENTH AVE.
PORTLAND 14, ORE.

PLASTIMAYD SPEED PUMP

Inflator can be operated with either hand or foot, and used on air mattresses, cushions, wading pools, etc. Pump is made of molded rubber with inner valve, and nozzle to fit any air valve with adaptor attached. Price, $2.98. Company also manufactures rainwear, air mattresses, Ibsen Aqua belts and suits and outdoor utility goods.

●

TAT ENGINEERING CORP.
402 WASHINGTON AVE.
NORTH HAVEN, CONN.

ROTARY BILGE PUMP

Rated at 10 gal. per minute. Objects as large as a marble will pass through the Tat pump. Operates with a cranking action. Lifts water 3′ and discharges it another 15′ overboard. Price, $19.50.

●

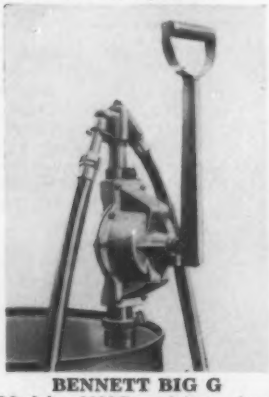
VARIA CORP.
339 15th ST.
TOLEDO 2, OHIO

SUBMERSIBLE BILGE PUMP

Pump for fresh and salt water is constructed of marine bronze castings and deep-drawn copper cover incorporating O-ring gasketing along with a lapped carbon and ceramic mechanic facing. Drive shaft is of bronze utilizing a flexible impeller. Pumping capacity is 490 gph. at a 3′ head, pump outlet requires a standard ⅝″ I.D. hose. Pump is available for both 6 volt and 12 volt operation. Price, $29.95.

●

JOHN WOOD COMPANY
BENNETT PUMP DIVISION
MUSKEGON, MICH.



BENNETT BIG G

Model 2008G piston type transfer pump pumps over 20 gallons per minute. Features include all-metal construction, with base threaded for 1″ intake pipe, and bung adapter fitting 1½″ or 2″ openings and adjusting up or down. Pump has vacuum beaker, easy-grip handle, and intake is furnished with adjustable telescoping intake pipe. Other models are available with spout outlet and tripod stand.

FIRE EXTINGUISHERS

●

AMERICAN LAFRANCE
ELMIRA, N. Y.

PROTEXALL EXTINGUISHER

5-pound Protexall dry chemical fire extinguisher is designed for large craft and has snap-open clamping bracket and features easy squeeze-handle operation.

●

AMERICAN PAD & TEXTILE CO.
S. WASHINGTON ST.
GREENFIELD, OHIO

TAPATCO FIRE EXTINGUISHERS

Four types of fire extinguishers are being offered, each especially suited for use aboard boats of various sizes: a 5 lb. carbon dioxide type designated as Model 1404; two 2½ lb. pressurized dry chemical types, one chromium-plated, Model 1400 and one red enamel painted, Model 1410; and a 5 lb. pressurized dry chemical type, Model 1402. Tapatco label stands for quality in marine safety and outdoor products.

●

ANSUL CHEMICAL CO.
MARINETTE, WIS.

MONITOR

Dry chemical fire extinguisher has 2¾ lb. capacity and is approved by USCG for flammable liquid, gas and electrical fires. Unit can be operated with one hand, and recharged when empty with a factory-filled U.L. listed recharge unit. It shoots a fan-shaped stream with 8′ range. Marine mounting bracket is included. Price: $18.50; recharge shell, $4.95.

ANSUL FIRE EXTINGUISHERS

Two new types of marine dry chemical fire extinguishers are offered, including C. G. approved portable models with 5, 10, 20 and 30 pound dry chemical capacity, and fire extinguishing systems, semi-portable with 150 and 350 pound dry chemical capacity. Semi-portable systems are equipped with 50 ft. of hose and Dualstream nozzles, for one man operation. Also available is automatic 30 pound dry chemical piped system.

ANSUL EXTINGUISHERS

Manual and automatic, portable and semi-portable dry chemical models, in varying capacities. Underwriters' Laboratories approved. For Class B (flammable liquid) and Class C (electrical) fires.

●

FYR-FYTER CO.
221 CRANE ST.
DAYTON 1, OHIO

SAFETY TWIN FIRE EXTINGUISHER

2½ lb. pressurized dry chemical portable fire extinguisher is lightweight, has squeeze handle releasing a 60° wide angle blanket of chemicals and has visual gauge for checking operating condition. Operational range is from 10′ to 12′ Extinguisher is available in chrome or red finish, with clamp type bracket included.

●

WALTER KIDDE & CO., INC.
675 MAIN ST.
BELLEVILLE 9, N. J.

PRESSURIZED DRY CHEMICAL FIRE EXTINGUISHERS

Operation is made simple with these 2½ and 5 lb. pressurized dry chemical fire extinguishers by having no trigger locking pin to remove, no valve to turn, no inverting and no bumping. A number of approved dry chemical, carbon dioxide and wet chemical extinguishers are offered by Kidde.

DISTRESS KITS

ALLAN MARINE, INC.
325 DUFFY AVE.
HICKSVILLE, N. Y.

DISTRESS KIT NO. 1799

Kit contains three 10-shot signals, two 10-minute flares, a sea whistle, a fluorescent dye marker, a package of waterproof matches, and a launching handle. Price, $4.95.

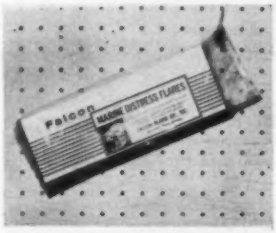
FREPAK PRODUCTS
380 N. MAIN ST.
PROVIDENCE, R. I.

ALL PURPOSE EMERGENCY KIT

Boat-Doc marine safety pak contains first aid kit with all essentials for emergency treatment of minor ailments, including surgical dressing, burn ointment, cream for insect bites, ammonia inhalants, pain relief pills, adhesive tape,

gauze pads and plastic waterproof strips. Four 5 minute friction type red flares, dye marker, whistle and orange signal flag are included, along with compass, flashlight and matches. Price $19.95. A $3.95 compact marine distress signal kit is also offered.

FALCON ALARM CO., INC.
243 BROAD ST.
SUMMIT, N.J.



DISTRESS SIGNAL KITS

Emergency boat signals are double-sealed in polyethylene and include: F kit, 3 night signals; N kit, 5 night or day signals, and D kit, 6 night or day signals. Prices: F kit, $2.95; N kit, $4.95; and D kit, $5.95.

SAMUEL JACKSON'S SONS
838 SUBURBAN STATION BLDG.
PHILADELPHIA 3, PA.

BRISTOL DISTRESS KITS

Kits include 500 candlepower red distress flares, orange smoke signals, distress flag and signal mirror. Prices: from $3.65 per kit.

KILGORE, INC.
200 E. BROADWAY
WESTERVILLE, OHIO

25mm. FLARE-SIGNAL KIT

New Kilgore International 25mm. flare-signal kit includes pistol, 5 parachute flare-signals and 5 meteor flare-signals packed in a waterproof, metal container. Flare-signals are available in red, yellow, green or white. They have a trajectory of about 200 feet and are visible for a 20 mile radius. Price $34.50. A number of lower priced flare-signal kits are available.

CHARLES ULMER, INC.
CITY ISLAND, N. Y.

HEAV-N-LINE

Safety devise consists of 6" foam vinyl ring and 100' of floating polyethylene line in canvas case. Ring has sufficient weight to carry out the 100' line. Price, $6.95

VAN KARNER ENTERPRISES CORP.
P.O. BOX 426
PORT JERVIS, N.Y.

VEREY PISTOL

VK-37MM Verey pistol, VK smoke signal, sea markers, star rockets and flares are offered, also other rescue and survival equipment for air, land and sea, including "Skipper" signal flare kit.

1960 models on display
Spaces A-60, A-61
N.Y. Boat Show—Jan. 15-24

It's a beauty! it's a *Barbour*

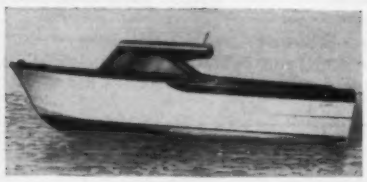
NEW STYLING . . . NEW MODELS
—but the same famed Barbour quality!

See Barbour's distinguished 1960 lapstrake line—*plus two new plywood smooth-side models.*

Smart new designs and over a quarter-century of master boat-building combine to give you the best buy ever.

There's a Barbour Boat for your every use . . . fishing, cruising, skiing.

FREE *literature—send the coupon today*



BARBOUR BOATS, INC., Dept. PB-20
NEW BERN, NORTH CAROLINA
Please send descriptive literature
NAME_____
(please print)
STREET_____
CITY, STATE_____

NAVIGATION AIDS & EQUIPMENT

WHEN THE DOCKLINES are made up and you are underway, the task of navigating your boat begins. No matter how short the run, even if you can see the shore, a knowledge of navigation is necessary. In fact, the closer to shore you are, the more important the art of piloting becomes. Fog can close in at any time, and currents can upset calculations. The boatman who scorns learning the rudiments of navigation is denying himself one of the most pleasant aspects of boating.

Where to Learn?

Free courses in seamanship, piloting, and navigation are given by the United States Power Squadrons, and the Coast Guard Auxiliary, in cities across the United States. Competent instructors with many years of first-hand experience on the water can pass along their knowledge to you. In addition, these organizations maintain a program of social events where men with similar interests in boating can meet and share their experiences. For the address of the nearest local squadron of the U.S.P.S., write National Headquarters, 9 West Demarest St., Englewood, N. J. The address of the nearest Coast Guard Auxiliary unit can be secured by calling your local C.G. district office.

Minimum Equipment

No matter how small, every boat should carry basic equipment consisting of a compass and a chart of the waters in which the boat is operated. The compass should be corrected for deviation caused by iron and steel within the boat, or an up-to-date deviation table should be carried. Charts are available from the Coast and Geodetic Survey, the local branch of the Hydrographic office, or the U. S. Army Corps of Engineers.

In addition to compass and charts, a pair of dividers should be kept to step off the distance between runs, and a course protractor for laying a course line on the chart. If fog or thick weather makes visual piloting impossible, you can navigate to a safe harbor with this equipment and avoid having to spend an uncomfortable night at anchor. Light lists, tide tables, clock, barometer and speed indicator are helpful.

CHECK LIST FOR THE NAVIGATOR

- ☐ **Are you fully aware of the complete range of navigating aids available to boatmen?**
- ☐ **Do you consider accurate piloting "just a tedious chore," or do you exploit navigation as one of the pleasures of boating?**
- ☐ **Have you taken advantage of the cost-free organizations that teach piloting and navigation, such as the U.S. Power Squadrons and the Coast Guard Auxiliary?**
- ☐ **Have you taught your wife, or habitual cruising partner, enough rudimentary navigation to bring the boat safely home in case you are incapacitated?**

COMPASSES AND CHARTS

- ☐ **A Government chart is an aid to navigation. Has reading one become second instinct to you?**
- ☐ **Is the bouyage system of the United States familiar to you?**
- ☐ **Do you "boat by the seat of your pants," or utilize a reliable compass, and know how it works?**
- ☐ **Does a pea-soup fog scare you, or present an opportunity to practice with confidence the principles you have learned?**

RADIO AIDS

- ☐ **Is the nature of your cruising such that a good RDF will prove a valuable adjunct to your equipment?**
- ☐ **Do you understand the principle and operation of a Depthometer?**
- ☐ **Can you correct an RDF bearing for plotting on a mercator chart?**
- ☐ **Radar, Loran, RDF, Depthfinders and gyro-compasses are all now available for the small boat. Do you need one?**

NAVIGATING ACCESSORIES

- ☐ **A pair of good binoculars is a navigating aid. Do you own a pair?**
- ☐ **If you struggle with mathematics, could you use an inexpensive and simple time-speed-distance calculator?**
- ☐ **A course protractor or parallel rulers, dividers, pencil, eraser, and compass are minimum equipment aboard any boat. Do you have them?**

Radio Aids to Navigation

In the past, boatmen have had to depend on the famous three "L's" of the navigator—Lead, Log, and Lookout, but manufacturers now make a wide range of powerful, dependable, low cost electronic products that can make your boating safer and more fun. The development of the versatile transistor permits electronic equipment to be designed which is extremely compact and can be operated for a complete season on a single set of batteries. Even the small outboard can now be furnished with a depth sounder, ship-to-shore, automatic pilot without placing excessive drain on starting or lighting batteries. Most ship-to-shore radios also cover the standard broadcast band and can be used for listening to music or news. Depth recorders currently made may also serve a dual purpose as fish locators, and can be carried home and stored ashore when not in use. A radio direction finder can be used to obtain reliable "fixes" and also as a "homing" device for following a beam into port. Aeronautical charts, as well as marine charts, give locations and frequencies of land based radio transmitters for a supplemental and complete radio-navigational network.

Produced this year is a small Radar set which has a scope only 5″ in diameter, and is designed for small craft use. A small Loran (long range radio aid to navigation) is also made by the same company and may well bring pinpoint ocean-liner accuracy to pleasure boating in the near future. True-North indicating gyro-compasses that eliminate the need for figuring deviation and variation are also made in small sizes, and although cost is such that they are more suited to the larger cruisers, further development to reduce size and price is probable.

Electric tachometers and electric steering apparatus for both outboard and inboard craft have long been available, and help to take the guesswork out of estimating the day's run and some of the labor out of prolonged passages.

The best caution is to learn piloting with hand instruments first, then purchase electronic equipment that will make accurate navigation part of boating's challenge.

BENDIX AVIATION CORP.
8211 LANKERSHIM BLVD.
N. HOLLYWOOD, CALIF.

CIRCULAR COMPUTER

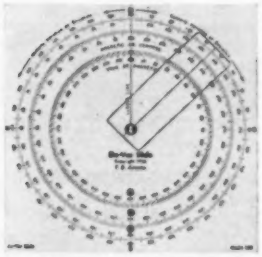
The Bendix computer has a second rotating disc to correct magnetic-to-true courses, or vice versa, and on the same side are scales converting Beaufort wind velocity ratings to miles-per-hour, and millibars of barometric pressure to inches. Both scales are designed to be helpful in the interpretation of weather forecasts. A price of 25 cents is charged for the computer. A radio station guide is supplied free.

DAYLIGHT COMPUTER CO.
BOX 1264, WENATCHEE, WASH.

DAYLIGHT COMPUTER

Can be used to quickly determine time of sunrise, sunset and useful twilight. Supplies information contained in widely used book of tables published by the government. Computer and booklet of explanation and sample problems, $3.75.

DE-VAR SLIDE CO.
P.O. BOX 452
NEWARK 1, N.J.



BOATMAN'S SLIDE RULE AND COURSE PROTRACTOR

Slide rule and course protractor determines course and heading with or without aid of chart compass, and allows user to measure and construct bearing angles without other instruments. Rule also measures distance in nautical miles on any chart. Price, $6.50. Also available is Boatman's Slide Rule, $4.50.

HENRY G. DIETZ CO.
12-16 ASTORIA BLVD.
LONG ISLAND CITY 2, N.Y.

DIETZ PELORUS

The Dietz Pelorus is mounted in a plastic case with all of its working parts constructed of metal. The sight and dial are

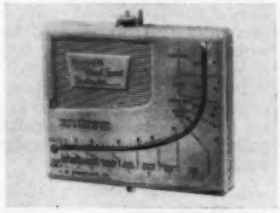
capable of being rotated independently. When not in use, the sight may be dismounted and laid in the case which is provided with a clear plastic cover. Price, $7.50. Dietz manufactures a number of items expressly for the boating field.

DOMUS CORP.
32 N. STATE ST.
CHICAGO 2, ILL.

BOAT LOG

Size 8½"x5½". Boat Log includes departments such as Fun with Skis, Boating Clubs, V.I.P.'s Piped Aboard, Consumption of Fuel, Gear Purchased as well as a complete section devoted to keeping an interesting record of cruises. 112 illustrated pages. Price, $2.95. A Radio Log is offered which is the companion edition to Boat Log in appearance and size. Also priced at $2.95.

F. W. DWYER MFG. CO.
P.O. BOX 373
MICHIGAN CITY, IND.



WIND SPEED INDICATOR

For anyone interested in wind and weather, this practical wind indicator gives an accurate reading. Ideal for the boat club, the Dwyer is actuated by a simple air tube. Wind speed is read directly, the same way you read a thermometer. Price: $19.95. A hand-sized wind meter is also offered at $4.95, giving both low and high range readings.

FREDERICK GOERTZ LTD.
VANCOUVER, B. C.
DISTRIBUTOR FOR WESTERN CANADA

KELVIN & HUGHES BRITANNIA SEXTANT

One of a number of K & H

An Open Invitation

To All Boatmen

From the

Captains Club

"Serving Boatmen Everywhere"

To get the full story of this new service organization created to save boatmen time and money . . . to make boating more carefree . . . more fun

WRITE TODAY

Captains Club, 381 Fifth Ave., New York 16, N. Y., Dept. 106.
No obligation . . . No one will Call

CAPTAINS CLUB

"The Service Club of the Waterways"

models. Divided from 5° to 1250 on silver arc. Radius, 6½". Reading, to .2 minute by means of micrometer. Index mirror, Class A rectangular 1.9"x1.3". Horizon mirror, Class A rectangular 1.3"x1.8". Shades, neutral tinted. Telescopes, Achromatic Erect Star, magnification 2.5, field 7°, aperture 1.22"; Achromatic Collimating, magnification 5, field 4°, aperture .75". Electric lighting on index arm. Certificate, Kelvin Hughes Class A. Weight, with Achromatic Erect Star Telescope, 4 lb. 2 oz.

●

HAMMACHER SCHLEMMER
145 E. 57TH ST.
NEW YORK 22, N.Y.

KOMOW CHART CASE

24"x24"x4½" automatic stainless chart case and protractor holds 20 to 30 charts, and is available in standard and deluxe electric models. Case allows one-hand chart changing, and has safety glass top for marking courses with grease pencil. Protractor has means for instant automatic correction for variation and/or deviation. Prices: Standard, $79.50; Deluxe, $119.50, with four bulbs under chart for illumination, 5' of weather-proof wire and dim-off-bright switch. Furnished in 6, 12 and 32 volts.

●

HEATH CO.
BENTON HARBOR, MICH.

RUDDER POSITION INDICATOR

Heathkit model R1-1 in kit form is calibrated to record rudder angle 60 degrees port and starboard of the midships position. Operates on 6 or 12 volt systems. Kit includes chrome-plated brass panel, wire wound potentiometer, sealed water-tight meter with D'Arsonval movement, and 23' of three-conductor cable for connection between transmitter and receiver. Position receiver dimensions are 3¼" x3¾"x2⅜". Price, $14.95.

●

MARK CROSS CO.
707 FIFTH AVE.
NEW YORK 22, N. Y.

CHART CASE

15½" x 9½" chart case is made of hide treated to resist mildew, mold and rot, and has two compartments, one for charts, other for combination yacht log book, guest register and radiotelephone log. Price, Case with book, $33.50.

●

REDDY FOX PRODUCTS CO.
155 BAY FRONT DR.
BALDWIN, N. Y.

RFC #1 CHART

Complete chart for radio direction finding and ranging in the New York Bight is available, with code which eliminates checking on other charts. Chart can be used with any radio which has a directional antenna, as well as with standard direction finders. Price, $1.

●

TEL-A-COMP, INC.
GOSHEN, N. J.

TEL-A-COMP POSITIONER

Combines fixed-lens sighting tube and jewel-pivoted compass, gives instant locations from two landmarks. Used on small boats and by skin divers for exact locations. Weight 1 lb. Can be mounted or hand-held. Price, $29.75.

●

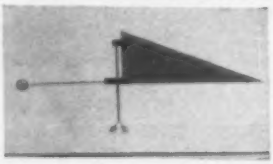
TELO CO.
1367 VULCAN AVE.
EL CAJON, CALIF.

GYRO-WINDFEATHER

The Gyro-Windfeather is a vane with a bright red pheasant tail and metal parts highly chromed. Fits all spars. Price, $4.95. Tel-O-Tails are priced at $2.95 per pair.

●

TROPICAL MARINE
BOX 344, DELRAY BEACH, FLA.



WINDETECTOR

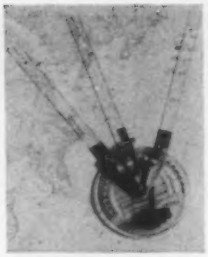
A mast head fly and wind direction indicator for sailboats that responds to light or strong winds and will operate at any angle of heel. Red vinyl plastic, monel rod and metal mounting base. Completely weatherproof; fits all masthead. 14½" long, 6" high, weighs 2 ounces. Price, $3.95.

●

WEEMS SYSTEM
OF NAVIGATION, INC.
ANNAPOLIS, MD.

WEEMS POSITION FINDER

Combination instrument is used for measuring horizontal angles and for plotting these angles directly on chart to obtain position. It is completely



independent of the compass, and can also be used for measuring relative bearings, replacing the pelorus. Base and arms are transparent plastic to permit viewing chart through protractor, and all fittings are brass. Price: $36, complete with instructions and storage box.

CELESTIAL COORDINATOR

The coordinator gives both the horizon and equinoctial systems of celestial coordinates and shows the relation between the two systems. It gives a graphic picture of the navigational triangle and the elements used in its solution. It quickly solves any spherical triangle to an accuracy of ½ degree. This gives practical values for many purposes such as azimuth, star identification and time of sunrise and sunset and affords a ready, rough, check on computed values of such items as altitude and latitude by meridian altitude. One side has an orthographic projection giving a large scale near the center, the other side a stereographic projection giving a large scale toward the edges. Made of plastic, 8½" by 9" overall, Price, $5.

PROPORTIONAL DIVIDERS

A different speed-time-distance computer with the unique advantage that distance, picked off the chart between divider points, can be immediately converted to the unknown speed or time. Speeds of 6 to 600 in mph or knots, hence equally applicable to air or marine navigation. Can also be used as a regular draftsman's proportional divider. Price, 6" $12; 8" $16.

COURSE PROTRACTOR

Protractors to measure or plot true or magnetic courses or bearings and to measure distances on U.S.C. & G. S. Coast and harbor charts. Arm length is 14", and protractors are made of thick vinyl plastic, with square grid for alignment on chart. Protractors are marked in nautical miles on Coast Survey charts at scales of 1:10,000; 1:20,000; 1:40,000, and 1:80,000. Compass rose is marked in degrees and compass points and indexes are given for true and reciprocal courses and bearings, variation scale for reading magnetic courses. Price: $4.50.

MARK I, MOD. O. MARINE PLOTTING BOARD

For current problems, relative movement problems, or any other problems involving the use of vectors. It has been found to be especially helpful in radar plotting and is widely used for this purpose. It carries a circular slide rule for solving speed-time-distance problems or any others involving multiplication, division or proportion. Other features are a radial arm, a straight edge with distance scales and table giving yards covered in different times at various speeds. Made of plastic. Overall dimensions: 12¾"x15½". Price, $12.

PLATH MARINE SEXTANT

The mirrors are coated with a protective paint which preserves the silver from humidity. For daytime observations sun shades of varying intensity are provided which make it possible to dim or black out the image according to requirements. Furnished complete with adjustment key, brush, certificate, mahogany carrying case and telescope. Prices vary with the type telescope desired. Price, $250.

●

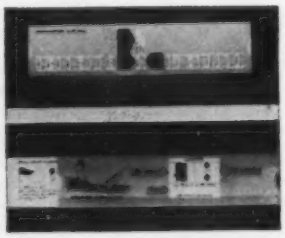
WILFRID O. WHITE & SONS
178 ATLANTIC AVE.
BOSTON, MASS.

WHITE WINDMASTER

Recent addition to line of wind instruments is the White Windmaster which provides wind speed and wind direction information at a high level of precision and sensitivity. Accuracy in measuring wind speed within 2 per cent is accomplished by the use of a sensitive meter and two scales 0-50 and 0-120 mph. White also offers a barometer with a fine movement, compensated for temperature changes.

●

WIND'N WEATHER SLIDE RULE
33 SNELL ST.
HOLBROOK, MASS.



"BY THE WIND"

Slide rule forecasts the weather when wind directions and variations are applied to the rule, and reverse side has reference sliding chart of USCG weather warning signals. Rule is made of plastic. Price: $3.50.

LIGHT EQUIPMENT

ALLAN MARINE, INC.
325 DUFFY AVE.
HICKSVILLE, N. Y.

MARINE DRUM LIGHT
No. 2439 Drum Light can be rotated through complete 360 degree circle. Construction is of solid brass, with triple mirror hard chrome finish. Complete, ready for installation on wood or plastic boats, $29.95.

ATTWOOD BRASS WORKS
GRAND RAPIDS 2, MICH.

BOW LIGHT—LANDING LIGHT & FLAGSTAFF
Center light is 21 candle power and throws wide-angle beam with 12 volt light bulbs, or 6 volt if desired. Optional flagstaff has spring-clip connection and fitting is 9¾" long, 10¼" wide, 4" high. Fasteners mount on fiberglass, aluminum or wood boats. Prices: Bow light-landing light, $18.65; 12" flagstaff, $4.

AUTO-MATIC PRODUCTS CO.
2268 SOUTH PARKWAY
CHICAGO, ILL.

MODEL OA-7C DOCKING LIGHT & MOORING BIT
Combined unit has bright beam forward in center of the lens, with wider circle of diffused light, and housing designed for use as a mooring bit by small craft. Unit is customarily deck-mounted with long bolts and turn screw nuts. Housing is chrome-plated, and light operates on 6 or 12 volt batteries. Price: $16.

BETTS MACHINE CO.
WARREN, PA.

B-30 MARINE LIGHT
The B-30 weighs 5¼ lbs. and features a pivot point electrical contact which permits unlimited 360 degrees of rotation on vertical axis. The B-30 is a combination spot and flood light which is completely waterproof.

JAMES BLISS & CO., INC., DIST.
342 ATLANTIC AVE.
BOSTON 10, MASS.

BOAT LAMPS
Line of lamps imported from Denmark includes handcrafted electric hanging signal lantern, electric Fresnel lamp and oil-burning turret top light, in several sizes.

BOWERS BATTERY AND SPARK PLUG CO.
READING, PA.

SWIRLY SAFETY LITE
Safety light consists of 3" x 3" plastic base and dome containing spring mounted bulb which automatically rotates and waves with vibration. Two penlight batteries supply power, and mercury batteries can also be used. Special belt clip and magnet built into base are used for mounting. Price: $1.98, with batteries.

BRIGHT STAR INDUSTRIES
CLIFTON, N. J.

FLASHLIGHTS
Waterproof, non-corrosive, non-magnetic flashlights are available in a variety of 2- and 3-cell models, as well as a 2-cell floating spotlight. Choice of batteries is offered.

BURGESS BATTERY CO.
DIVISION OF SERVEL, INC.
FREEPORT, ILL.

RADAR BOAT-LITE KIT MODEL BK100
Kit contains everything needed to meet USCG requirements for lights on small boats; combination red-green running light, stern light, 6 volt battery, toggle-switch, mounting bracket, twin-lead insulated wire sufficient for a 26' boat and screws and necessary hardware. Price: $12.40.

PAMPER YOUR BOAT

With Quality Accessories and the World's Safest Trailer . . . *all from Arnolt!*

1

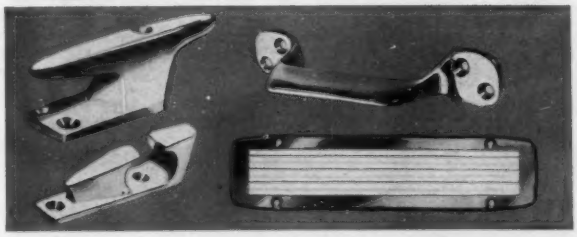
IVALITES
the Ultimate in Quality
MARINE SPOTLIGHTS

The man who enjoys the satisfaction of equipping his boat with the finest quality — has long known the superior features of Ivalites! These marine lights are unequalled in quality at any price. Remote and direct control. Heavily chromed, long-lasting construction. Full line permits selection of light that meets your need precisely.

Now... **MARINE HARDWARE** with the **CUSTOM LOOK!**

2

Newest member of the Arnolt family — smartly styled hardware that's up to the task of matching the quality so well-known in all Arnolt products. Selected items are shown from our complete line of marine hardware . . . write for details and name of dealer.



3

Safer on the road — easier to load!

American Explorer BOAT TRAILERS

Protect yourself — and your boat investment! These rugged trailers offer you suspension engineering that assures superior shock protection and stability. Powerful winch and tilt-action bed simplifies loading and launching — saves your back and your heart! Whatever size boat you own, there's a quality Arnolt trailer that meets your needs and your budget!

Write Today!
For FREE LITERATURE and name of Arnolt marine dealer near you.

Arnolt Marine Products — at better marine dealers everywhere!

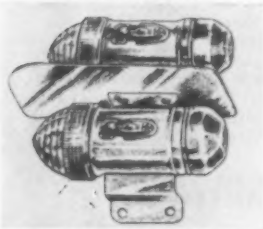
ARNOLT CORPORATION
Warsaw, Indiana

COMET INDUSTRIES INC.
2578 HARNEY ST.
OMAHA, NEB.

DOCKING LIGHTS

The Docking Lights mount flush in the hull below the deck-line and project 70,000 candlepower of focused light. Completely watertight. Recommended for all hulls through ⅜" thick, except Lapstrake and Strip design. Available for 6 or 12 volt systems.

CONSOLIDATED SPECIALTIES CO.
206 MICHIGAN ST.
TOLEDO 2, OHIO



SEA-SEE BOAT LIGHTS

Line of lights for small boats, as well as emergency trailer tail light, are all operated on flashlight batteries and are made of chrome-plated brass. Included are bow and stern lights, brackets, and 1-cell and 2-cell emergency trailer tail lights.

CREST MARINE HARDWARE CO.
2222 S. FIGUEROA ST.
LOS ANGELES 7, CALIF.

BOW LIGHT & STAFF

The Bow Light & Flag Staff comes complete with stainless steel rings, cam-action lock and the light can be rebulbed in seconds without the removal of screws.

CULVER-STEARNS MFG. CO.
181 GREENWOOD ST.
WORCESTER, MASS.

BOW AND STERN LIGHTS CONTROL SWITCH

Unit is designed for front panel control of bow and stern lights, and is of all-brass construction with chrome knob. Dimensions of the three-position push-pull switch are 3⅝" length, 1⅛" width. Company manufactures large line of marine electric equipment, including blocks, connectors, lamps, plugs, sockets and switches.

EVEREADY

EVEREADY MAGNET-LITE

The permanent type magnet in the jumbo switch now has a powerful 18-20 lb. pull to hold the light fast to any steel surface. Price of 2-cell model, $1.99, without batteries; 3-cell, $2.49, without batteries.

GUEST PRODUCTS CORP.
35-04 30th ST.
LONG ISLAND CITY, N. Y.

GUEST SEA-BEAM

Self-contained, pistol grip spotlight is complete with battery, and features moisture-proofed plastic housing, with contacts and circuitry potted in plastic. Power is by standard 6-volt heavy-duty lantern battery completely sealed. Price, $12.35.

JERVIS CORP.
MARINE PRODUCTS DIV.
MIDDLEVILLE, MICH.

LIGHT AND FLAGSTAFF

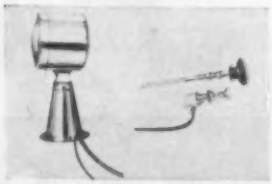
Combination light and pole offered in 6 or 12 volts, price $15.90. All Jervis marine hardware is die-cast zinc alloy and is copper, nickel and chrome-plated.

K-S MARINE PRODUCTS
OAKVILLE, CONN.

MARINE LAMPS AND ACCESSORIES

Full line of lights, flagpoles, ventilators, battery boxes, etc. Have solid brass construction and triple chrome plate finish; non-magnetic. Lights include deck mounted searchlights, running lights, telescoping searchlights, telescoping and other types of stern lights, remote controlled searchlights and handlights. Trailer tail light also available. Catalog giving descriptions and prices available on request.

KAINER & CO.
763 W. LEXINGTON
CHICAGO 7, ILL.



REMOTE SPOTLIGHT

Sealed beam unit with 55,000 beam candlepower is available for 6 or 12 volt systems and is furnished complete with 40" control cable. Fully waterproof.

LAPOINTE INDUSTRIES INC.
ROCKVILLE, CONN.

LOT O' LITE

Of lightweight aluminum construction, this unique lamp is complete with light fixture, power pack, fluorescent tube, 35' cord and plug. Operates off battery. Small battery drainage. Price, $14.95.

MERRIMAN BROTHERS, INC.
185 AMORY ST.
BOSTON 30, MASS.

MARINE SPOTLIGHTS

Line of marine spotlights includes "Nautalites" made of heavily chrome-plated brass and stainless steel. They are designed for 6 or 12 volt systems and have 55,000 candlepower sealed beam units. Models include direct control spotlight and overhead control spotlight.

MITY-LITE
1230 E. ST. GERTRUDE PL.
SANTA ANA, CALIF.

FLOATING MARINE LAMP

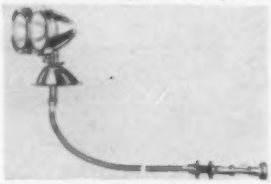
Mity-Lite, a new plastic cased flashlight, floats and can be used underwater. Plastic casing is corrosion and damage resistant. Nylon cord can be attached to four alternate suspension holes, enabling user to have freedom of movement.

WILCOX-CRITTENDEN DIV.
NORTH & JUDD MFG. CO.
MIDDLETOWN, CONN.

COMBINATION LIGHT

The chrome-plated Combination Light has a short base providing sturdy mounting on decks and breastplates which will not permit the use of a long base.

PORTABLE LIGHT CO.
216 WILLIAM ST., NEW YORK, N. Y.



RAY-LINE SEARCHLIGHTS

The Ray-Line Twin-Lite remote control Search and Floodlight is for runabouts and small cruisers. Marine searchlights, ranging from 5 to 20" in diameter are offered along with a complete line of remote control searchlights and self-contained battery units.

PERKINS MARINE LAMP & HARDWARE CORP.
159 SNEDIKER AVE.
BROOKLYN 7, N. Y.

CELEBRITY COMBINATION BOW LIGHT

Beautifully proportioned and lustrously finished in durable chromium plate. A double contact socket, red and green fresnel lenses and a removable flag

staff base for easy rebuilding. Meets all U. S. C. G. requirements. Catalogue available for 25¢.

RENCO-AIRE
2220 PALMER
KALAMAZOO, MICH.

WEL-LITE

Electronic flashing signal emits 90 yellow flashes a minute and has one-mile visibility. Light has polyethylene case with acrylic plastic lens and is powered by four flashlight batteries. Case measures 7" x 3¼" and is watertight.

SEISS MANUFACTURING CO.
3851 SEISS AVE.
TOLEDO, OHIO

SWIVEL SPOTLIGHT

Sealed beam swivel spotlight is available in 8" and 11" heights, and is equipped with 4½" lens and rated 40,000 beam candle power. Light swivels 360° horizontally and approximately 150° vertically, and removes from base for use as portable light. Chrome-plated light can be used with 6 or 12 volts, has three-way toggle switch, for on, off and signalling. Prices: $11.95 and $12.95.

SPARTON CORP.
50 W. NORTH ST.
JACKSON, MICH.

NAVIGATOR

Combination horn, light, and flag mast. Running light has red and green lenses; mast is removable; horn has stainless steel diaphragm. 17½"x9⅞"x 7¼", weight 7 lbs. 6 or 12 volts. "Midshipman" combination

light and horn does not have flag mast.

●

STADRI PRODUCTS CO.
147-47 SIXTH AVE.
WHITESTONE 57, L. I., N. Y.

SWIRLY

Rotating safety light is complete with leakproof batteries and belt clip and magnet for attachment. Light is of Styrene plastic. Price, $1.98.

●

UNITY MFG. CO.
2909 INDIANA AVE.
CHICAGO, ILL.

UNITY DECK LIGHTS

These chrome plated (brass) lights have 6½" size no. They are available in different models to operate on from 6 v to 32 v, and to draw from 30 to 150 watts. Each has a lens diameter of 5.7" and a base diameter of 3". Models have from 95,000 to 100,000 candlepower, and a range of from 4 to 5 miles. Prices are from $20 to $23.15.

●

WALLACE & TIERNAN INC.
25 MAIN ST.
BELLEVILLE, N. J.

FA-230 BRIDGE NAVIGATION LIGHT

Swivel-suspension light features four-place lampchanger mounted on shockproof supports. Low-voltage, concentrated-filament lamps are used, giving visibility of 4½ miles with a 25-watt lamp. 115/13 volt transformer is built into the light, and lens is 200 m.m. Fresnel. Light designed for lift bridges has duplex lanterns and can be switched manually or automatically. Another type for pedestal mounting on bridge abutments is also available.

HORNS & SIRENS

●

ALUMINUM MARINE HARDWARE CO.
8 TEMPLE COURT
AUBURN, N. Y.

NAUTA-BLAST AIR HORN

No. 930 air horn with Freon pack may be used either portable or stationary and assures strong, clear, resonant signals. Nauta-Blast Air Horn with Freon Pack, $9.95; refill pack $1.95.

●

AUDIO EQUIPMENT CO.
75 HARBOR RD.
PORT WASHINGTON, N. Y.

TRANSISTOR-MEGAPHONE HAILER "CUB"

Megaphone projects speech 300 yards, and has power transistor circuit operating one 9 volt battery. 12¼" long unit is of all-aluminum construction. Price: $47.95, complete with battery and wriststrap.

●

BELL PRODUCTS CO.
4251 FOREST PARK AVE.
ST. LOUIS 8, MO.

PORTABLE LOUD-SPEAKERS

A complete line of Trans-Com Portable Loud-Speakers are available for all uses in public address work. Speaker

can be removed and remotely located for better coverage. Uses one Burgess F4PI or one Eveready No. 744 battery. Wt. with battery, 11 lbs. 10-watt Hurricane model $99. 6 watt Cyclone model $84.95. 4 watt Tornado model $74.95.

●

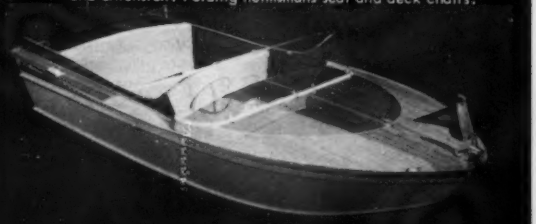
DEVELOPMENT ENGINEERING CO., INC.
9 CROSS ST.
NORWALK, CONN.

FOG SIGNAL TIMERS

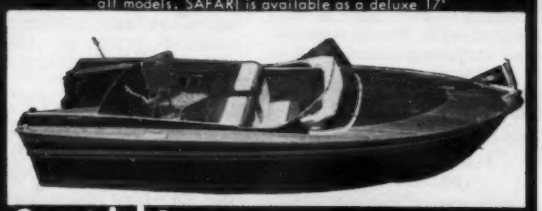
Fog signal timer automatically blows horn at prescribed intervals in accordance with legal requirements for running in fog on any waters. Draws 10 watts. Price, Model M, $39.50; Model U, for sailboats and vessels which operate in

The Boat of Your Life - a Borum

Cruiser The VOYAGER 18 features a fully enclosed cabin with built-up lounge seats, cabinets and lockers. Bridge and after deck sheltered by folding top, screens and extension. Folding helmsmans seat and deck chairs.



Sleeper The SAFARI 15 Cruiser comfort at outboard economy. Back of forward seat lets back to make up a full-sized midship bunk. Note new deck design in all models. SAFARI is available as a deluxe 17'



Overnighter The CORSAIR 16 . . . a 6-passenger beauty with spacious, padded forward bunk. Equipped with folding top, screens deck chairs and many extras. Note sliding portlights for berth ventilation.

Sportabout The FIREFLITE 14 .. an ideal model ideally suited to all-around family boating or fun with skis ! A popular design, it is available in 15', 16' and 17' too.

Borum builds the finest and most complete line of out boards both mohogany and fiberglass 14' to 20'

OTIS C. BORUM BOATS INC.

WRITE FOR LITERATURE
DEPARTMENT G BOX 1164
JACKSONVILLE 1, FLORIDA

International or Inland Waters or Great Lakes, $44.50; Model P, panel-mounting unit available in 6, 12, 32, 110 Volts D.C. or 110 Volts A.C., $69.

●

ENSIN PRODUCTS DIV.
MINIT SPRAY CORP.
P.O. BOX 189
DES PLAINES, ILL.

ENSIN HORN

Air-powered horn for outboard, inboard and sailing craft meets USCG requirements for craft up to 65′ for all-weather, passing, warning and emergency signaling. Chrome-finished. Price: $11.95; horn fuel refills, $1.50.

●

FALCON ALARM CO., INC.
243 BROAD ST.
SUMMIT, N.J.

MOUNTED UTILITY HORN U-4-A

Cadmium-plated horn is self-powered with Freon, and has loud, medium-pitched blast. It is packaged with cadmium-plated deck-mount and fittings. Price, $17.45.

●

FERRELL MFG. CO.
GROTON, N.Y.

SHIP-N-SHORE SEASPORT EIGHT

Chrome horn with dashboard control has 8″ trumpet and gives over 800 one-second signals per 15 oz. Energy Pak. Price, $29. Other horns are available in either twin or single-trumpet styles, with or without remote control.

●

GUEST PRODUCTS CORP.
35-04 30th ST.
LONG ISLAND CITY 6, N. Y.

GUEST CHIEF POWER MEGAPHONE

Transistorized power megaphone is self-contained hand-held unit of unbreakable vinyl and polyethylene plastics, and uses standard lantern battery power. Price, $57.50.

●

JERVIS CORP.
MARINE PRODUCTS DIV.
MIDDLEVILLE, MICH.

JERVIS HORN

6 or 12 volt models are priced at $23.95. Additional marine hardware of high quality is offered by Jervis.

●

K-S MARINE PRODUCTS, INC.
OAKVILLE, TENN.

ELECTRIC HORNS

New line of tuned, triple chrome-plated electric horns covers USCG requirements for Class A and Classes 1, 2 and 3. Available as singles or as tuned twins. Prices from $11.95 to $67.

●

PERKINS MARINE LAMP & HARDWARE CORP.
159 SNEDIKER AVE.
BROOKLYN 7, N. Y.

BRASS FOG BELL

Features a removable bracket and is available in plain brass, polished brass or lustrous chrome finish. Catalogue available for 25¢.

●

PORTABLE LIGHT CO.
216 WILLIAM ST., NEW YORK, N. Y.

RAY-LINE HORNS

The Ray-Line manually operated Air Horns are now made in two sizes; one for small and the other for large boats. They are not dependent on air bottles or electric current. Sireno Sirens are also offered in several sizes.

●

SEABRIGHT MARINE
1630 SUPERIOR, COSTA MESA, CALIF.

BOAT AND SHIP BELLS

Custom-manufactured boat and ship bells, cast and polished to specification. Prices vary.

●

THE SEISS MFG. CO.
3838 SEISS AVE., TOLEDO 12, OHIO

ELECTRIC HORNS

Sealed against water seepage. Available in 6 or 12 volts. Brass-chrome plated. Price, $18.95. Literature on request.

●

STIRRUP, INC.
MARINE DIVISION
50 SILVER ST.
MIDDLETOWN, CONN.

SEA SLAVE

Transistorized audio control unit is utilized as listening device for picking up distant bells, motors of other boats, fog horns, etc. Safety devices such as bilge level indicators, fire and temperature rate-of-rise detectors and burglar alarm systems may be connected to safety input which will set off a continuous blast on the deck speaker if any of the devices indicates trouble, regardless of whether or not the set is on. Unit also functions as automatic fog horn, or manually-operated signalling system with varied pitch control. Operator can talk or listen to any part of the boat through a remote speaker system. Individual inputs are provided for connecting mikes, phono equipment, safety devices, deck speaker, remote speakers and headset. Prices, 12 volt, $295; 32 volt, $330.

●

SPARTON CORP.
50 W. NORTH ST.
JACKSON, MICH.

PILOT

Die-cast chrome plated pedestal 3 9/16″ diameter. Hole for water drainage. Rubber grommet for wires to fit snug. Brass cadmium plated screen. Heavy chrome plated front and projector. Motor enclosed for added protection.

●

WALLACE & TIERNAN, INC.
25 MAIN ST., BELLEVILLE 9, N. J.

FA-232 FOG HORN

Battery operated fiberglass horn is corrosion resistant, weighs 120 lbs. Runs for a year on a 12 volt 2000 amp.-hr. battery. Activating units are watertight enclosed. Self-regulation keeps frequency constant under variable atmospheric conditions. (Frequency is preset at 400 cps.) Timer preset for 2 sec. sound, 18 seconds silent, and repeat. Range over ½ nautical mile. Other timer presettings available.

RADIOS & RADIOTELEPHONES

●

AQUADYNAMICS CO.
6940 FARMDALE AVE.
N. HOLLYWOOD, CALIF.

RADIO GROUND PLATE

"Dynaplate" achieves maximum grounding efficiency for marine radiotelephones. In various sizes: *Standard Transom* type, 2″x6″x½″, equivalent to 12 sq. ft. of copper sheet, $19.75; *Standard Thru-Hull* type, same size, $14.75; *Little Giant*, 3″x12″x½″, gives area-to-water factors of over 40 sq. ft., bolts to hull, $49.50; *Super*, 6″x18″x½″, exposes over 125 sq. ft. to water, bolts to hull, $139. U. S. Pat. No. 2,909,589.

●

APPLIED ELECTRONICS CO., INC.
213 E. GRAND AVE.
S. SAN FRANCISCO, CALIF.

APELCO RADIO MODEL AR-9

Two-way radio operates on 27 megacycle Citizens Band and is designed for marine use in inter-boat or boat-to-car or shore station communications. Radio has splash-proof marine construction, epoxy-protected cabinet, Mil-spec and conversion-coated chassis. Both transmitter and receiver are quartz-crystal controlled with choice of five channels, and transmitter operates at maximum power permitted by FCC and has full modulation. Units are available for operation on 12 or 32 volts DC or 115 volts AC.

SM-4 SIGNAL MONITOR

The Sm-4 is designed to monitor ship-to-ship, ship-to-shore telephone, and distress frequencies. It can be used in conjunction with an existing marine radio telephone as an auxiliary receiver, or combined with a separate transmitter to form a complete communications package. Available for either 12 or 32 volt d.c. operation. Five crystal-controlled channels can be preset within its 2,000 to 5,000 kilocycles frequency range.

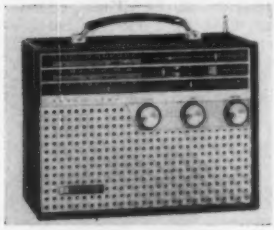
AE-75M

A compact radiotelephone with all the features for reliable long distance communications. Seven crystal-controlled channels can preset anywhere within the 2,000 to 6,000 kilocycle frequency range. Input of 90 watts. Audalok is a volume control system which automatically prevents very strong signals from overloading the re-

ceiver and opens up gain for weak signal reception. Control system for remote operation is available.

●

ARVIN INDUSTRIES, INC.
COLUMBUS, IND.



INTERNATIONAL
3 frequency-bands, 7 transistors. Features 3 gang tuning condenser 5-inch speaker, push-pull output. 36" telescoping whip antenna. Black pigskin leatherette stitched case.

●

PACIFIC DIV., BENDIX AVIATION CORP.
8211 LANKERSHIM BLVD.
N. HOLLYWOOD, CALIF.

SKIPPER 202A
42-watt rated, 5-channel radiophone uses 10 transistors and 2 tubes. Capable of putting nearly 25 watts into the antenna and suited to medium-sized craft. Weighs 13 lbs. Draws ½ amp on broadcast reception, 1.3 amps on two-way standby and 7.5 amps while transmitting.

SKIPPER 101
25-watt rated, 4-channel, transistorized radiotelephone for operation from 12-volts. Over 14-watt output to antenna. Tenna-Coupler antenna system gives high two-way performance. Including crystals for 2,182 kc and 2,638 kc, microphone, mounting bracket and battery cable, Skipper 101 is priced at $249.95.

SKIPPER 303
Rated at 65 watts and delivers over 34-watts to antenna. Five crystal controlled channels. Meets FCC and Coast Guard requirements for use on party-fishing boats. Available with 12-volt transistorized power supply. Tenna-Coupler antenna system eliminates need for ground connections, ground plates or wiring of any kind between unit and water.

●

BLUDWORTH MARINE DIV.
KEARFOOT CO., INC.
1500 MAIN AVE., CLIFTON, N. J.

COMMUNICATOR
The Bludworth Marine Model BRT 1025-1 Communicator radiotelephone is fully licensed in connection with FCC rules and regulations for all boat uses. Designed for small pleasure and fishing boats. Price, $265.

●

CAS MANUFACTURING CO.
P.O. BOX 53
MINERAL WELLS, TEXAS

CAS MARINE TRANSISTOR RADIO
Radio is available in three models; Marine 88, broadcast band only; Marine 88M, broadcast and marine; and Marine 100A, broadcast, marine and Beacon Band, 200 to 440 kc. Radio operates on self-contained battery or 12-volt boat system, with Models 88 and 88M having 8 transistors and diodes, and 100A model having 10 transistors and diodes. Unit is 8" x 4½" x 1¾".

●

DELMONICO INTERNATIONAL
42-24 ORCHARD ST.
LONG ISLAND CITY, N. Y.

SONY TR-812 RADIO
The Sony TR-812 imported 8 transistor 3-band portable radio features 2 diodes, slide rule tuning dial, fine tuning control, hi-efficiency speaker, powerful push-pull output, signal strength meter, 6 section telescoping antenna for marine and SW bands, Ferrite antenna for AM, provisions for external antenna and plays hundreds of hours on 4 size D flashlight batteries. Price, $119.95.

Presenting the **SUFFOLK**

by **MUNSTON**

A 65 WATT TRANSISTORIZED RADIO TELEPHONE

- 5 Channel Marine Telephone
- Plus Broadcast Band reception
- Crystal control transmitter and receiver
- On-Off transmit filament switch
- On-Off noise limiter
- Self-contained one unit construction
- All new transistorized power supply
- 12 or 32 volt DC, or 110 volt AC operation
- Frequency range 2 to 6 MC
- Highly efficient new circuit design and low power consumption
- Complete with push-to-talk microphone
- Pleasing modern styling in beautiful decorator colors

Price: $489.50 complete with mike

FIRST SHOWING NY BOAT SHOW BOOTH C42

Choice dealer territories open—write

MUNSTON ELECTRONIC MANUFACTURING CORPORATION

BEECH STREET, ISLIP, LONG ISLAND, NEW YORK

ELECTRONIC INSTRUMENT CO., INC.
33-00 NORTHERN BLVD.
LONG ISLAND CITY I, N. Y.

EICO RA-6 RADIO
6-Transistor portable radio is available in either kit or wired form, and features built-in Ferrite loop antenna, prealigned RF and IF transformers, a 4" x 6" oval PM speaker, high-impedance earphone jack and is housed in carrying case with retractable handle. Price, $29.95, kit, and $49.95, finished.

GRAY RADIO CO.
501 FOREST HILL BLVD.
W. PALM BEACH, FLA.

MODEL G-60-A
FCC type accepted radiotelephone has 70 watts input, 35 watts output, and seven crystal-controlled channels and broadcast band. Unit is self-contained for bulkhead mounting, and has frequency range of 1950-4500 kc., and is available in 12 or 32 volt models. Dimensions, 12¾"x11¾"x 7¾". Price: $585, including two pair crystals and telephone handset with coiled cord standard.

HARTMAN MARINE EQUIPMENT CORP.
30-30 NORTHERN BLVD.
LONG ISLAND CITY I, N. Y.

MODEL 3059
Hartman Radiotelephone features 5 separate channels, is completely moisture fungus-proof, 30 watts transmits voice signal up to 125 miles, weighs 10 lbs., and can be installed by owner in minutes. Price, $219.95.

HEATH CO.
BENTON HARBOR 3, MICH.

W-CB-1 TRANSCEIVER
Heathkit offers a complete Citizen's Band Communications system in either wired or kit form. Designed to meet all FCC requirements for 11-meter Citizen's Band Class D operation, the Heathkit Transceiver offers top quality two-way radiotelephone communication. Kit model CB-1, $42.95; model W-CB-1, wired, $60.95.

TRANSISTOR PORTABLE RADIO KIT
Six-transistor portable radio kit has 4"x6" pm speaker with heavy magnet. Transformers are prealigned, and kit has built-in rod-type antenna and standard size "D" flashlight cells. Company also offers same radio in leather case. Prices, $29.95 and $34.95.

RAY JEFFERSON, INC.
40 E. MERRICK RD.
FREEPORT, L. I., N. Y.

MODEL 635
Features 35 watts transmitter-power; 1600-3500 kc transmitter; five channels; speech filter. 6, 12, 24, or 32 volts from boat's batteries. Antenna, remote control unit, and paging loudspeaker available.

MODEL 7130
Features 130 watts input; 10 channels; 1600-3500 kc range; speech filter. 12, 24, 32 and 115 volts DC, 115 volts AC. Remote control optional. Meets all FCC regs.

CL22 MARINE ANTENNA
Marine band, 2000-2830 kc. Salt spray resistant. Overall length 23'. Aluminum wire used. Brass or bronze chrome plated hardware.

MODEL 865
Radiotelephone with 65 watts power input, modulation limiter, five channels, low current drain, speech filter, automatic noise limiter, 1600-4500 kc range. 12 or 32 volt battery operation. Moisture and fungus resistant. Cannot cause electrolysis trouble with the underwater fittings of the boat. Telephone handset included as standard equipment. Built-in provision for remote control. Also available: Model 875, with 75 watts power input with similar specifications except operates on 12, 24, 32, or 115 volt batteries; both models 17½" x 12½" x 10¼". Allow 4" additional height for clearance and 3½" for handset.

KAAR ENGINEERING CORP.
2995 MIDDLEFIELD RD.
PALO ALTO, CALIF.

D PHONE
Designed specifically for economical, short range communications. 5 watt mobile unit designed for operation on any two of the 23 available channels in the 26.96 and 27.33 Mc frequency band. 6 or 12 volt d.c. or 117 volt a.c. Price, $179.

L T LABS, INC.
1113 PINE ST.
WAUKEGAN, ILL.

WEATHERMAN SLIM-SIX
The Weatherman Slim-Six receives low frequency CAA weather band (200-400 kilocycles) and standard broadcast ranges for entertainment. This 6 transistor radio has a built-in ferrite rod antenna which is very sensitive and very directional, obtaining a null when the end of the set is pointing toward the station. The coat pocket-sized case is impact resistant and contains an earphone jack. Price, $69.95.

MASTER MOBILE MOUNTS, INC.
1306 BOND ST.
LOS ANGELES 15, CALIF.

MARINE ANTENNAS & MOUNTS
The Marine Marvel provides maximum power radiation on all marine frequencies from 2 to 3 megacycles. Over-all length 10½". Price ranges from $29.95 to $35.95. Marine crystals are also available in hermetically sealed holders.

MULTI-PRODUCTS CO.
21470 COOLIDGE HWY.
OAK PARK 37, MICH.

CITI-FONE
Rugged, precision built, 2-way radio for operation in new Class D Citizens Band of frequencies. Operates on any 5 of 22 channels available. Ceramic microphone. Price, $134.50. Also available is the Sea Rad which complies with output requirements for party and charter boats, priced at $455 with 10 crystals, microphone cables, and dual power supply.

MUNSTON MFG. & SERVICE, INC.
BEECH ST.
ISLIP, L. I., N. Y.

NASSAU
The Nassau marine radio telephone features 10 tubes, transmitter stand-by switch to reduce battery drain, push-to-talk microphone, connections for remote speaker and handset, and available in 6 or 12 volts. Price, $250. A complete line of marine telephone equipment is offered.

NATIONAL RADIO CO., INC.
37 WASHINGTON ST.
MELROSE 76, MASS.

MODEL NC-66
Portable radio has continuous coverage of DF beacons, AM broadcast, amateur and worldwide shortwave bands, on 150-400 kc. .5 to 23 mc. Radio operates on 115 volt AC or DC, or self-contained batteries, or 220 volt AC with accessory adaptor. Features include provisions for external direction finder for marine use, Model RDF-66. Direction finder consists of modified loop antenna mounted on and adjustable compass rose, with front panel containing null indicator.

PEARCE-SIMPSON, INC.
2295 N.W. 14TH ST.
MIAMI 35, FLA.

MODEL M-7A RADIOTELEPHONE
Companion units have 150 watts of input power on each of 10 crystal-controlled channels, and 85 watts output. Input voltage is 32v or 110v DC or 110v AC, and frequency range is 2,000 kc to 6,000 kc. Dimensions are: Transmitter, 20" x 14" x 11½"; Power Supply, 11½" x 14½" x 16½"; and Remote, 7" x 13½" x 5½". Optional remote control performs all operational functions, including channel selection. Cabinet woods offered are korina, teak or mahogany, with special finishes on request. Price, $1,500.

OUTBOARDER
Available in two styles, Outboarder (6v) and Outboarder 30 (12v), radio telephone has frequency range of 2-3 megacycles and 4 channels plus broadcast. Transmitter and receiver are crystal-controlled, and dimensions of aluminum and Royalite cabinet are 12" x 12" x 7½". Price, $299.50.

ISLANDER 30-TA
Radiotelephone is for 6v systems and transmitter power is 30 watts input, 15 watts output. Unit has five crystal-controlled channels and broadcast band reception, and frequency range of 2,000 kc to 4500 kc. Fiberglass cabinet is 15⅝" x 9" x 11⅜". Price, $350. Standard remote control and channel selection remote are available.

ATLANTIC 70-B
Fiberglass cabinet radiotelephone has five crystal-controlled channels and broad-

cast band reception, with transmitter power of 70 watts input, 35 watts output. Unit operates on 12 or 32 volts DC, and has optional remote control providing channel selection and all other operational functions except for "on-off" power switch. Frequency range is from 2,000 kc to 4,500 kc, including Great Lakes Channel coverage. Price, $530; remote control unit, plus 20′ cable, $150.

PACIFIC 130

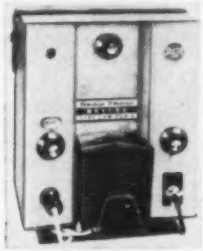
Radiotelephone has 8 crystal-controlled channels, 130 watts input and 65 watts output, and operates on 12 volts, 32 volts and 115 volts AC, with frequency range from 2,000 kc to 4,500 kc, including Great Lakes Channel coverage. Cabinet is of molded reinforced fiberglass with separate power supply. Remote control is optional, and provides channel selection and all other operational functions except "on-off" power switch. Price, $665.

●

RADIO CORPORATION OF AMERICA
30 ROCKEFELLER PLAZA
NEW YORK 20, N. Y.

RCA MARINE RADIO-TELEPHONES

Two models available are Cruisephone 35 and Cruisephone 65. Designed primarily for smaller craft, the 35 provides 6-channel coverage in the 2-3 mc frequency range, while 65 has 8-channel switching for extended coverage for ship-shore communications over 1.6-8.5 mc ranges.



RADIO-PHONE DELUXE

Citizens band radio has superheterodyne receiver and can be used for personal conversations prohibited on other frequencies.

●

RAYTHEON MARINE PRODS.
RAYTHEON CO.
WALTHAM, MASS.

RAY-23

Ray-23 radiotelephone is a five-channel, 42-watt communicator for use with 6 or 12 volt power supplies. Other radiophones in line offer same

styling in five models from 30 to 90 watts. Price, $369.50.

●

REGENCY DIVISION
I.D.E.A., INC.
7900 PENDLETON PIKE
INDIANAPOLIS 26, IND.

MODEL RP-4 RADIO-PHONOGRAPH

Transistorized radio-phonograph is self-contained, portable and powered by four flashlight batteries. Phonograph accommodates 78, 45 and 33⅓ rpm records and has 4″ PM speaker. Size of case is 11¼″ x 9″ x 3¼″. Price, $49.95.

●

SAMPSON CO.
2244 S. WESTERN AVE.
CHICAGO, ILL.

HITACHI 822 MARINE

The Hitachi 822 Marine band-AM is an 8-transistor radio featuring antennae, personal listening earphone and 2 leather carrying cases for radio and telescopic antenna. Powered by 4 standard penlite batteries. Prices, $75.

●

SONAR RADIO CORP.
3050 W. 21 ST., BROOKLYN 24, N. Y.

MODEL 90 RADIO TELEPHONE

Low power tune up prevents damage to equipment and operator. Non-magnetic chassis. Salt-spray resistant. FCC type accepted. 6 marine channels plus broadcast band, receiver and transmitter in one unit with separate supply, 12 or 32 volts, weight 20 lbs. (less power supply), 14¾″x7⅝″x12″. Complete with tubes and microphone. 94 watts. Price, $495. Also available, Model 160, with two separate dynamotors and 150 watts, $595.

MODEL 65 RADIO TELEPHONE

Ship-to-ship and ship-to-shore communicating system for all boats. Self contained unit has receiver, transmitter, and power supply. 6 marine frequencies and broadcast band. Built-in meters. Salt-spray resistant. FCC type accepted. 2000-3000 kc, 6 or 12 volts, 65 watt input. 14¾″x 7⅝″x12″, weight 24 lbs. Price, $395.

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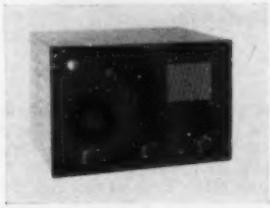
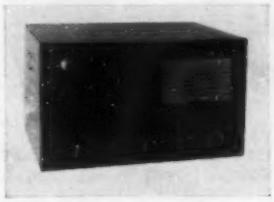
WALCO ELECTRONIC CO.
9404 VENTNOR AVE.
MARGATE CITY, N. J.



MODEL WA 35

Model WA 35 has 5 crystal controlled marine channels plus standard broadcast and is adaptable to either 6 or 12 volts by making simple changes in the power supply. Power output to antenna is 20 watts. Circuits feature high level modulation and speech clippers for maximum transmitting power. Price $339.50.



MODEL WA 50

Two unit construction of R.F. unit and power supply on Model WA 50 allows for maximum flexibility of installation. Available in 12 volts, the unit has a power output of 35 watts. For 32 volt unit, special order must be placed. Price $499.50, with 4 sets of crystals. Walco offers a complete line of radio telephones to fit most boaters needs.

●

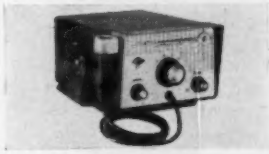
WEBSTER MFG. CO., INC.
242 SHORELINE BLVD.
MILL VALLEY, CALIF.

17 MARINE ANTENNA "PACKAGE"

For boats requiring a moderate-sized antenna installation. Package includes 17′ antenna, universal swivel-base mounting bracket, mount for securing antenna in down position and hardware. Features center loading for reduced loading coil losses, and operates with any radiotelephone over 2,000 to 3,000 kc range. Coil is sealed in plastic, is weather and moisture resistant. Column is of aluminum tubing, coated for corrosion resistance.

●

YOUNG SPRING & WIRE CORP.
GONSET DIVISION
801 S. MAIN ST.
BURBANK, CALIF.



G-12

The G-12 Citizens Communicator 2-way radio can be used for all types of business or personal activities where 2-way communications are needed. Operates within the 26.965 to 27.235 megacycle Citizens Band. Price, $149.95.

●

ZENITH RADIO CORP.

TRANS-OCEANIC

All-transistor standard and short wave portable. Operates on 9 standard flashlight batteries, no need for AC/DC power outlet. 7 tuned circuits, 3 gang tuning condenser, tuned rf stage for maximum sensitivity. Features calibration logging scale, time chart,

detachable wave magnet antenna, rotary band selector, telescopic short wave antenna concealed in carrying handle, jack for earphones and record player. Tropicalized, weighs 13 lb. with batteries. Prices, including batt.: 8 wave bands (marine, weather, shortwave, standard), $250; 9 wave bands (plus CAA network of low-freq weather navigation stations), $275.

NAVIGATOR

Two-band all transistor portable receiver and self-powered emergency navigation instrument. Receives long distance standard stations plus U.S., Canada, etc., weather-navigation stations. Tuned rf stage and 3-gang condenser for selectivity. Two ferrite antennas, cross-bearing (homing) switch, azimuth scale; earphones (optional). Operates for 350 hours on six standard flashlight batteries. Price less batt., $99.95.

RADAR & LORAN

PACIFIC DIV., BENDIX AVIATION CORP.
8211 LANKERSHIM BLVD.
N. HOLLYWOOD, CALIF.

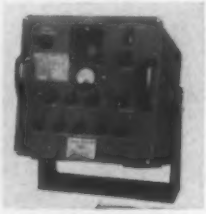
MR-3B MARINE RADAR
41" x 16⅞" x 9⅝", weight, 115 lbs., and scope diameter, 10". Set operates on 24, 32, 110 and 220 volts DC, and 110 volts AC. Has minimum detection range of 40 yards, and maximum range of 20 miles, with range accuracy of 40 yards and bearing accuracy of 1.8°. Has 4 scale ranges, 1, 4, 10 and 20 miles. Special features include automatic frequency control, two-unit construction and vertical or horizontal indicator mounting.

BLUDWORTH MARINE DIV.
KEARFOOT CO., INC.
1500 MAIN AVE., CLIFTON, N. J.

MARINE RADAR
The Kelvin Hughes Marine Radar Type 14-9BR as modified by Bludworth Marine and type accepted by the FCC, incorporates all the essentials of modern shipborne radar—reliability under all conditions, full high-power performance, high definition on short and long ranges, low weight, and small size. Price, about $4,500.

EDO CORP.
13-10 111th ST.
COLLEGE POINT
NEW YORK 56, N. Y.

MODEL 320 RADAR
10"x13"x16", with 7" diameter of scope. Model operates on 32, 110 and 220 DC voltages, and 115 AC voltages, 60 cycles. Detection range is from 25 yards to 20 miles, with accuracy of 2 per cent of range, and 2° of bearing. Range scales are 1, 2, 5, 10 and 20 miles. Features slotted waveguide antenna, light weight and low power drain. Price, $3,500.



MODEL 262 LORAN WITH AFC
14⅝"x15 1/16"x17 1/16", weight, 90 lbs. Operates on 12, 32, 110 and 220 DC voltage, and 115 volts AC, 60 cycles. Scope has 3" diameter. This model has direct reading, which can be obtained in less than 1 minute, and has 28 tubes. Price, $2,400 F.O.B. College Point.

RADIO CORPORATION OF AMERICA
30 ROCKEFELLER PLAZA
NEW YORK 20, N. Y.

RADAR FOR SMALL CRAFT
Compact unit is designed to provide scanning range up to 18 miles for average cabin cruiser or small workboat. Transistorized power supply and "economy conscious" circuitry reduces power drain to 300 watts. Rotating antenna is housed in a radome with diameter of 26".

SPERRY PIEDMONT CO.
DIV. OF SPERRY RAND CORP.
CHARLOTTESVILLE, VA.

LORAN
Radio navigation system can pick up signals in daytime from 1,000 miles away, and from 1,400 miles at night. Receiver requires 115 volts AC; 50-1200 cycles; 135 watts, which can be supplied by a 12 or 32 volt DC battery system through an inverter. Receiver is linked to a standard two megacycle antenna. Frequency range is 1,750 to 1,950 kc. Price, $1,495.

RADAR 5
Advanced design radar is especially for the small boat operator, and has 5" plan position indicator, with cursor and fixed azimuth ring enabling pilot to obtain relative bearings of other vessels and objects within range of the scanner. Features include two-unit packaging, two range scales and transistorized power supply that accepts either 12 or 32 volts DC primary power. Minimum range is 50 yards, and range scales 1 and 5 miles. Price, $1,495.

RADAR 10
Advanced design radar for both large and small vessels has 10" plan position indicator, and reflection plotting on this radar permits observer to plot courses directly over radar scope. Features include two unit packaging, and range scales of ½, 1, 2, 4, 8 and 20 miles. Power input can be 32 volts or 115 volts DC, or 110 volts AC. Radar has minimum range of 25 yards, and narrow beamwidth to separate objects close together at the same distance. Prices: 32 volts DC, $4,288; 115 volts DC, $4,278, and 110 volts AC, $4,067.

RADIO DIRECTION FINDERS

ALLEN-BRADFORD DIV.
GOVEN MUSIC CORP.
3181 N. ELSTON AVE., CHICAGO, ILL.

MODEL P-202 DF-O-MATIC NAVIGATOR RDF
Portable radio direction finder has positive to/from guide and left-right course indicator and can be used up to 200 miles out. Transistorized finder operates on air and marine beacon bands and broadcast bands. Features include telescoping sense antenna, non-ambiguous bearings, battery test light, earphone jack, accurately calibrated 360° compass rose with knurled tuning dial, sensitive meter and carrying handle. Dimensions are 9"x10½"x8". Price, $249.

MODEL 300 DF-O-MATIC NAVIGATOR
Portable electronic automatic direction finder automatically indicates left and right, and visually shows "to and from" a given direction. Transistorized finder operates on marine beacon bands and broadcast bands. In addition to battery use, it also operates on AC-DC 110 volts. Features include telescoping sense antenna, non-ambiguous bearings, earphone jack, and accurately-calibrated 360° adjustable asimuth. Dimensions are 10"x 11½"x7½". Cabinet is of aluminum, and unit weighs 9½ lbs. Price, $299.

PACIFIC DIV., BENDIX AVIATION CORP.
8211 LANKERSHIM BLVD.
N. HOLLYWOOD, CALIF.

ADF-100
The only visual Automatic Direction Finder on the market. Gives instantaneous bearing on land stations, beacon and broadcast, as well as on other boats. Non-rotating loop, low power consumption. 3 bands: 200 to 600 kc beacon, 600 to 1,700 kc broadcast, 1,700 to 4,00 kc marine.

NAVIGATOR 440
Operates from 6, 12 or 32 volt battery systems and has three frequency bands to cover beacon, broadcast and marine stations. Contains null meter and sense control and sensitivity and automatic noise limiter controls. 12' loop is mounted over rotatable azimuth.

NAVIGATOR 500
Bendix Navigator 500 RDF

eliminates danger of getting readings that are 180 degrees from correct bearing. Measures 6" high, 11" wide and 10½" deep. Protected in a plastic carrying case. Price, $249.95.

●

BLUDWORTH MARINE DIV.
KEARFOOT CO., INC.
1500 MAIN AVE., CLIFTON, N. J.

MARINE PILOT

The Bludworth Marine Model DF 1030A Marine Pilot direction finder provides 3-band coverage of marine beacons, standard broadcast and marine telephones as well as time signals and weather. Price, $535.

PORT PILOT

The Port Pilot direction finder, model DF 30A is self-contained and completely portable. It gives fast, accurate bearings from marine and air beacons in all weathers. Price, $45, less batteries.

●

HEATH CO.
BENTON HARBOR, MICH.

TRANSISTOR PORTABLE RDF KIT

The DF-2 is a self-contained, self-powered, six transistor superheterodyne two-band radio direction finder. Receives aeronautical and marine beacons as well as standard band broadcasts. Covers beacon band, 200-400 kc, and broadcast band, 540-1620 kc. Designed to take directional "fixes" on both aircraft and marine beacons as well as standard broadcast stations. Controls: Sensitivity knob controls gain; bearing knob rotates the ferrite-loop antenna; volume; vernier tuning; bandswitch; on-off switch; dial light for night operation. Power is supplied by six standard flashlight batteries which last one year under normal conditions. Moisture and fungus-proofing lacquer supplied with kit. 9½"x 8"x5", weight 9 lb. Price, $69.95.

●

MUNSTON MFG. & SERVICE, INC.
BEECH ST.
ISLIP, L. I., N. Y.

BAY SHORE

Bay Shore direction finder is a fully transistorized 3-band, all-purpose, precision-built instrument. Up to 2 seasons of normal operation from a standard 12 volt dry-cell battery. Price, $199.50.

●

PARAMETRICS
P. O. BOX 629
COSTA MESA, CALIF.

PORT-A-FINDER

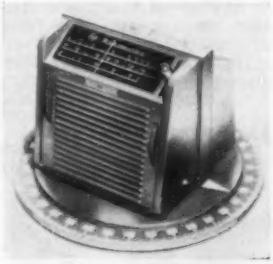
All-transistor radio direction finder is powered by four penlite cells and receives marine radio beacons, radio telephones and standard broadcast stations. Mahogany case is 8" x 9" x 3". Features include high efficiency ferrite core antenna system, and meter reads upscale at null to overcome pivot friction. Price, $159.95.

●

RADIO CORPORATION OF AMERICA
30 ROCKEFELLER PLAZA
NEW YORK 20, N. Y.

PORTAGUIDE

Navigation aid takes bearings on radio beacons, broadcast stations and signals from radio-telephone-equipped boats and shore stations.



DIRECTION FINDER RADIO RECEIVER

Radio-Homer is transistorized battery-powered radio direction finder for small craft and can also be used as a detachable three-band portable radio receiver. Unit is mounted on compass plate.

●

RAYTHEON MARINE PRODS.
RAYTHEON CO.
WALTHAM, MASS.

TRANSISTORIZED RADIO DIRECTION FINDER

"Ranger" Model 354 radio direction finder is a self-contained, battery-operated unit especially designed for use aboard smaller pleasure boats. Transistors in the portable unit prolong battery life. Price, $299.50.

●

ROBINSON & CO.
BOX 213, GARDENA, CALIF.

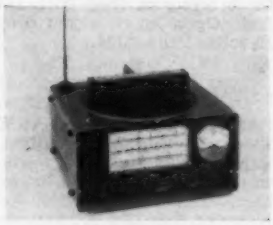
PORTABLE DIRECTION FINDER

A jeweled 0-50 Microammeter, R.F. Type. Unaffected by noise and volume control. The Roco

303-NML model incorporates a magnetic compass. Also has pelorus sights, directional loop, plug-in jack for power supply and tuning control. All directional.

●

SONAR RADIO CORP.
3050 W. 21 ST.
BROOKLYN 24, N.Y.



MODEL DF6X

This extremely sensitive, battery operated, completely transistorized direction finder features a sense amplifier to provide accurate plus or minus one degree single null true bearings. The DF6X operates on 3 bands; Beacon (195 kc to 420 kc); Standard Broadcast (525 kc to 1650 kc) and Marine (1600 kc to 3500 kc). Price: $249.50 complete with energizer battery.

●

SPERRY PIEDMONT CO.
DIV. OF SPERRY RAND CORP.
CHARLOTTESVILLE, VA.

RADIO DIRECTION FINDER

All-transistorized radio direction finder has short wave, marine broadcast and Coast Guard and Aviation Beacon bands, tuning and null meter, adjustable null sensitivity, built-in, tuned radio frequency amplifier stage, and unit is portable. Control panel is illuminated. Price, $249.

DEPTH FINDERS

●

APPLIED ELECTRONICS CO.
213 E. GRAND AVE.
SOUTH SAN FRANCISCO, CALIF.

MODEL MS-8

MS-8 Depth Sounder is power-type and operates from boat's battery for extra power performance. Highly compact unit also includes Apelco Snap Clamp mount for rapid installation or removal. Suitable for operation on the smallest boat. Price, $99.50.

MODEL MS-10

MS-10 is a deluxe version of MS-8 and has gimbal-type mount for optimum viewing angle. Dial is extra large for full vision. Both units are rugged, reliable, fully treated against moisture and corrosion.

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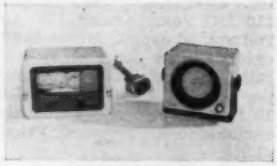
PACIFIC DIV., BENDIX AVIATION CORP.
8211 LANKERSHIM BLVD.
N. HOLLYWOOD, CALIF.



DI-5 DEPTH INDICATOR

Indicator uses transistors and has large dial graduated to 240 ft. or 40 fathoms, with Brite-Lite flash for easy viewing. Can be mounted against a bulkhead, on a shelf or overhead, with swing-mount to adjust instrument to any desired angle. Features plug-in connectors for the transducer and battery leads. A choice of transducers, with integral thru-hull stuffing tube or with separate stuffing tube, is provided. Price, $199.

DR-18 AND DR-19 RECORDERS

Two depth recorders feature new scanning and recording design that operates on a circular sweep. Both have wide paper and new cabinet design. DR-18 recorder has 3 scales of 20 fathoms each; 0-20, 20-40 and 40-60. DR-19 model has 5 scales of 60 feet each; 0-60, 60-120, 120-180, 180-240 and 240-300. Price of DR-18/19 is $299.

●

CURTISS-WRIGHT CORP.
6767 HOLLISTER AVE.
GOLETA, CALIF.

DEPTH-PROBE

The portable Depth-Probe

consists of a transducer to transmit and receive sound waves reflected from the bottom and a direct reading meter. Transducer can be fixed permanently underneath the hull or clamped to the side or held in the water by hand. Requires no special skill to operate or install. Price, $89.50.

●

EDO CORP.
13-10 111th ST.
COLLEGE POINT
NEW YORK 56, N. Y.

EDO FISHCOPE

15 1/16"x15 5/8"x18 13/16", weight 75 lbs. Operates on 12, 32 and 110 DC voltage, and 115 AC voltage, 60 cycles. Model indicates depths from 0 to 400 fathoms, and is accurate to 2 per cent. It features expanded 10 fathom scale continuously variable to 400 fathoms. Price, $1,200.

MODEL 255C SURVEY DEPTH RECORDER

Unit operates on 12, 32, 110 DC voltage and 115 AC voltage, 60 cycles. Indicates depths from 2 feet to 250 fathoms, with accuracy to ½ of 1 per cent. Equipped with recording device, this model has 4 overlapping expanded scales in either feet or fathoms. Price, $2,740.

MODEL 185

28¼"x23¾"x14", weight, 220 lbs. Model operates on 115 AC voltage, and indicates depths from 0 to 6000 fathoms or feet with accuracy to ½ of 1 per cent. Has recording device. This unit is standard equipment in U. S. Navy, Coast Guard and Coast & Geodetic Survey. Price, $7,150.

●

ELECTRO-VOICE, INC.
MARINE DIVISION
BUCHANAN, MICH.

DEPTH FINDER

The Electro-Voice Marine Depth Finder features a Dial Doubler, which permits the user to select, from a knob on the dial face, either of two depth scales, reading from 0 to 60 feet and from 0 to 120 feet. Operates on either 6 or 12 volts. Price, $125.

●

LAFAYETTE SUPPLY CO.
WEST LAFAYETTE, OHIO

LAFAYETTE DEPTH ALARM

Electrically operated shallow-water signal device warns when approaching sand, gravel bars, shoals or reefs. Unit operates on 6 or 12 volts, and attaches to transom with probe adjusting to extend 12" to 15" below prop. Buzzer sounds when probe contacts bottom or underwater obstruction. Adaptor is available for attaching unit to side of boat. Prices, $14.95, complete; side mounting adaptor, $2.50.

●

LOWRANCE ELECTRONIC
MFG. CO.
112½ E. 13th ST., JOPLIN, MO.

PORTABLE FISH LO-K-TOR

Transistorized fish "Lo-K-Tor" can detect single fish or a whole school and shows type of bottom to 80 ft. Standard 6 volt lantern type batteries are used in 10 lb. instrument, which can also be used as navigation aid in foggy weather or unfamiliar waters. Price: $148.50 F.O.B. Joplin, Mo., complete with batteries and boat bracket.

●

MULTI-PRODUCTS CO.
21470 COOLIDGE HWY.
OAK PARK 37, MICH.

SEA-DEEP DM-1

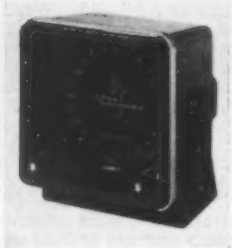
Three ranges, 0 to 10', 0 to 50' and 0 to 250'. Meter calibrations are linear, illuminated for night use. 6 or 12 volt, with other voltages available upon request. Price, $158.50.

●

PEARCE-SIMPSON, INC.
2295 N.W. 14TH ST.
MIAMI 35, FLA.

"ULTRASOUNDER" DEPTH INDICATOR

6½" x 6½" x 5½" completely



transistorized sounder gives depth readings to 120 ft. by mechanically governed precision electric motor using 12 volt power, with total current drain less than ½ ampere. Self-illuminated scale for night use is standard, and all cables "plug-in" and are polarized for installation and removal. Price, $159.50, unit plus complete installation kit.

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RADIO CORPORATION OF AMERICA
30 ROCKEFELLER PLAZA
NEW YORK 20, N. Y.

DEPTH-O-METER III

Transistorized depth indicator for small craft operates either on its own flashlight batteries or craft's power source. Indicator dial covers range from 0 to 120 ft.

●

RAYTHEON MARINE PRODS.
RAYTHEON CO.
WALTHAM 54, MASS.

ANGLER DE-708

Portable Fathometer has its own batteries inside the indicator unit. Transistorized Angler DE-708 is 6" in diameter and 5" deep. Transducer can be mounted permanently through the bottom of the boat or hung over the side for temporary use. Price, $125, less battery.

●

ROSS LABORATORIES, INC.
124 LAKESIDE AVE.
SEATTLE 22, WASH.

FISHERMAN DEPTH FINDER

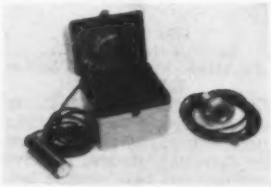
100-fathom depth finder operates on 6, 12 or 32 volts DC, and is accurate to 4% full scale. Non-magnetic indicator has 7" reflection-free screen, one-fathom markings and new high voltage neon flash. Dimensions of indicator are 9"x 9"x6", electronics chassis is 6¼"x11¾"x6¾". Price: $310.

SPORTSMAN TRANSISTOR T-80

Fully transistorized single unit-designed depth finder has power drain of 1/10th amp. and is powered from single 7½ volt lantern-type battery. Depth finder utilizes magnetic keying and has basic range of 80 feet, indicator calibrated in one foot increments. Fiberglass housing measures 7"x5"x 5". Price: $128.50, less battery.

SPORTSMAN TRANSISTOR "S-80" DEPTH FINDER

Completely transistorized dual unit design finder has waterproofed separate indicator, is chrome-plated and measures 4⅛" high x 3⅜" diameter. Electronics unit stows out of the way, and portable 7½ volt lantern-type battery provides 300 to 500 hours operation. Basic range of 80 feet, indicator calibrated in one foot increments. Price: $148.50, less battery.



SPORTSMAN PORTABLE "P-80" DEPTH FINDER

Fully transistorized, portable depth finder comes in fiberglass case 7"x5"x9", and contains its own batteries and has storage space for transducer. Two types of transducers are available; portable flashlight type for rigging to side of boat, and through-hull type for permanent installation, optional. Basic range is 80 feet, indicator calibrated in one foot increments. Price: $148.50, less batteries.

SPORTSMAN TRANSISTOR "S-240" DEPTH FINDER

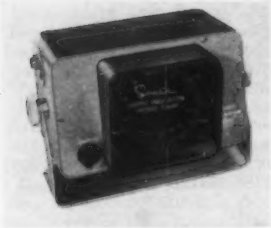
Fully transistorized, 7-transistor circuit, 240' range depth finder has separate remote indicator, and weatherproof indicator unit measures 3¾"x 4½"x4¾". Sun shield is included, and finder indicates depth from 2½ feet to 240 feet and beyond. Unit uses magnetic keying, operates from any 6, 12 or 32 volt storage battery and is accurate to 4% full scale. Price: $185.

●

SONAR RADIO CORP.
3050 W. 21st ST.
BROOKLYN 24, N. Y.

MODEL D600 DEPTH INDICATOR

Records depths up to 600 ft.



using Sonar principle. One-piece, nonmagnetic construction; own power supply. Reads both feet and fathoms. 6 or 12 volts. 11⅜"x7½"x7½", weight 9 lbs. Price complete with transducer, $249.50.

MODEL D-120B DEPTH INDICATOR

9½"x7"x6", weight 9 lbs. 6 or 12 volts. Reads depths, using Sonar principle, from 1 to 125 ft. on first revolution and 125-250 ft. on second revolution. Has 360° 4-inch scale in 1-foot calibrations. One-piece nonmagnetic construction includes power supply, electronic circuitry, and indicator. Price, including transducer, $139.50. Also available: portable depth indicator model D-120P similar to above with self-contained 6-volt rechargeable battery. Price, $198.50.

●

THERMO PRODUCTS CO.
3727 N. PALMER ST.
MILWAUKEE 12, WIS.

AQUA-TEMP INDICATOR

The Aqua-Temp Indicator contains a large direct reading sweep needle type temperature gauge, graduated from 32 to 80 degrees. A sensor element is attached to the end of 35′ of wire which is color marked to indicate depth. Lowering the sensing element into the water gives an immediate reading of temperature on the dial indicator. Ideal for the fisherman.

●

WILFRID O. WHITE & SONS
178 ATLANTIC AVE.
BOSTON, MASS.

ECHO DEPTH SOUNDER

The Transcentury all transistor echo depth sounder has a 5" dial and bright echo-flash record 24 soundings per second on 100′ depth dial with twice-around range. It is powered by flashlight batteries and is waterproof and can be mounted anywhere. Other White items include Surecho heavy-duty echo depth sounder, Automatic Pilot and the 1960 edition of Eldridge Tide and Pilot Book.

●

WINSTON ELECTRONICS
MIAMI, FLA.

WINTRONIX DEPTHMETER 400

This portable transistorized depthmeter runs entirely on its own power with no drain on boat power. Weighing less than 3 lbs., the 400 is easily attached and removed to prevent theft. Two scales on the 400 read from 0 to 12" and from 0 to 120". 2 per cent accuracy. Unit requires only a simple cable attachment to the hull. Price, $99.50.

AUTOMATIC PILOTS

●

PACIFIC DIV., BENDIX AVIATION CORP.
8211 LANKERSHIM BLVD.
N. HOLLYWOOD, CALIF.

DART AND MODEL 14

The new Bendix Dart Automatic Pilot binnacle installation will serve boats to 35′. Course to be steered is dialed by rotation of knob at base of binnacle which turns the azimuth scale. Steering motor and other elements are contained in quadrant attached directly to the rudder post. Priced under $400. The Model 14 is for boats from 30′ to 65′ and consists of the pilot house control unit with dodging and course-changing buttons, a weather sensitivity control, the steering motor for installation in steering system, and the control cabinet housing the relays and terminal junction boards. Price, $565.

●

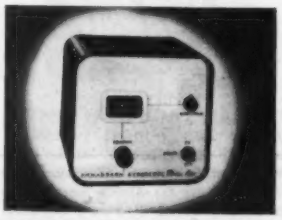
HILL-CUNNINHAM AUTOMATIC PILOT CO.
RODI YACHT BASIN
FORT LAUDERDALE, FLA.

AUTOMATIC PILOT

Pilot for inboard, commercial and outboard boats is nonelectronic unit that operates on 12, 24 or 32 volt system, with average current consumption of 1½ amps. Features include heavy-duty motor, mechanically stabilized pilot compass, simplified remote control, and operation is not affected by moisture. Price, $350; remote control, $49.50.

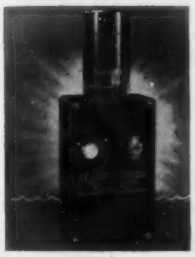
●

RICHARDSON CONTROLS CORP.
2543 POST ROAD
WARWICK, R. I.



MODEL GM MASTER PILOT

Non-hunting automatic pilot has gyroscopic heading selector, proportional steering and transistor amplifier. Remote control is available on the unit which weighs 18 lbs. and has electrically adjustable rudder limits. Price, $675.



MODEL B

For boats up to 40′, with 12, 24 or 32 volt systems, the Model B is non-hunting and has magnetic compass head and manually adjustable rudder limits. Price, $395.

●

SILVA, INC.
704 RIDGEWAY ST.
LA PORTE, IND.

NO. 33 SILVA MARINE

Recommended for cruiser and sail pleasure boats. Dimensions: outside diameter 3½", height, 3½". Diameter of card face, 2⅛". Mounted on gimbals. Can be mounted on bulkhead. Special design gives fast reading from relatively small size. Outer 3½" dial is set at desired course. Pilot steers so needle is parallel with lines inside the 2⅛" face. This lends a more rapid and accurate method of reading than trying to hold needle to the desired degree. Liquid filled hermetically sealed housing. 2° markings on dial can be set within 1°. Inner card also graduated for direct readings when desired with 5° counter clockwise markings. Price, $30.

●

SPERRY PIEDMONT CO.
DIV. OF SPERRY RAND CORP.
CHARLOTTESVILLE, VA.

AUTOMATIC PILOT

Automatic steering system requires 3 amps at 32 volts or 8 amps at 12 volts, and features 6" magnetic nautical compass, hydraulic steering and output torque up to 1,740 lb. ft. Sea state and ship's steering characteristic's controls are mounted on amplifier. Price, $1,148.

COMPASSES

●

AIRGUIDE INSTRUMENT CO.
2210 WABANSIA AVE.
CHICAGO 47, ILL.

RAINBOW DELUXE MARINE COMPASS

Instrument has an internal gimbal system built into the capsule to keep lubber line in proper position for best reading. Features include concave dial, built-in rheostat to adjust brightness, internal compensation system using Cunife I magnets and jeweled pivot. Dome is 4" in diameter. Price: $37.50.

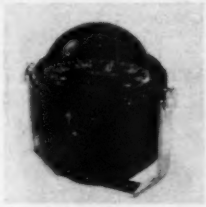
MFR., Airguide Instrument Co., 2210 Wabansia Ave., Chicago 47, Ill.

MODEL 77 COMPASS

Direct reading dial with five degree scale. Alnico V magnet, jeweled pivot. Removable from mounting bracket for storage. 3⅜"x3½"x3". Price, $8.95.

COURSE MONITOR

Instrument tells at a glance if boat is being held on predetermined course. When boat has been headed on desired course by regular compass, Monitor index is adjusted to nearest of six targets on its dial. Suitable for power and sailboats. Price: $20. Airguide also manufactures a complete line of clocks and barometers.



No. 88B MARINE COMPASS

Outside diameter, 3½" outside height, 4¾", card face diameter, 2¾". This model is suitable for mounting on bulkhead or dashboard of sailboats, runabouts or small cruisers. Compass has wide angle of operation, eliminating need for gimbal, and is underlit red for night use. Special features include Alnico V magnet, built-in compensators for positive adjustment and jeweled movement. Price, $15.

●

AQUA METER INSTRUMENT CORP.
465 EAGLE ROCK AVE.
ROSELAND, N.J.

MODEL 80 COMPASS

Outboarder Compass Model 80 adds sea-going flavor to the dash or deck of any outboard runabout. Fully-compensated precision movement. Readings at a glance from 2-way card, calibrated top and sides. Price, $9.95, with light kit, $11.95. Light kits are available on most Aqua Meter products.

●

BRITISH MARINE PRODUCTS
80 SHORE RD.
PORT WASHINGTON, N. Y.

SESTREL COMPASSES

Henry Browne and Son Ltd., makers of fine marine instruments has appointed British Marine Products as sole selling agent for their Sestrel line of compasses, clocks and barometers.

●

W. T. DARRACH CO.
P. O. BOX 275
TRENTON, N. J.

DARRA JR. COMPASS CORRECTOR

Precision-built and gimbal mounted compass corrector is made of non-corrosive materials and uses sun's shadow as a point of reference only. Price, $9.95. Darra Sr. Compass Corrector, $49.50.

●

DINSMORE INSTRUMENT CO.
BOX 773, FLINT 1, MICH.

MODEL 530

Model 530 is a combination compass, course director and pelorus. Upper bezel is movable with sighting vane to obtain an azimuth and the dual lubber lines serve as a course director, bracketing the wide segment of the dial for ease of reading. 3" dial. Price, $15.

●

HULL MANUFACTURING CO.
WARREN, OHIO

HULL BOAT COMPASSES

Line of compasses includes models with mounting brackets for installation on dashboards, decks or windshields of either wood, fiberglass or aluminum boats. Airplane-type dial is compensated to resist magnetic interference, and compasses are available either illuminated or non-illuminated Prices, illuminated, $6.95; non-illuminated, $5.95.

●

MINICORD CORP. OF AMERICA
1915 ATLANTIC AVE.
ATLANTIC CITY, N. J.

COMPASS SHIELD

Compass shield protects compass against all extraneous magnetic disturbance caused by electric windshield wiper motors. Shield uses grain-oriented magnetic steel and fits directly over the windshield wiper motor.

●

MUSKEGON OUTBOARD SPECIALTIES CO.
4386 AIRLINE RD.
MUSKEGON, MICH.

TRU-SPEED MODEL C-180 COMPASS

Panel-mounted marine compass has cunife type magnets in both dial and compensator, Army-Navy specifications suspension fluid, individually balanced dial assembly and Vernier adjusting compensator for correction of magnetic influence. Instrument is available in two models, C-180 for angles to 15° and C-180-30 for dash boards inclined from 15° to 30°. Price: $11.50.

●

STAR COMPASS CO.
MILTON, MASS.

MARINE COMPASSES

Star Spherical Compasses feature built-in compensator and the models offered range in price from $16 to $55. Available in various mountings.

●

WEEMS & PLATH, INC.
229 PRINCE GEORGE ST.
ANNAPOLIS, MD.

WEEMS HAND BEARING COMPASS

Compass for use on small boats gives direct magnetic bearing, and has V-sight on top of the reflection prism to pin-point the bearing. Instrument is 9" long, and indirectly lighted for night use with flashlight batteries. May be mounted for use as steering compass. Price: $37.50.

PLATH T-50 YACHT COMPASS

Recommended for large yachts. Dimensions: outside diam. 9", height 8", diam. of card face 6", mounted on internal gimbals. Can be mounted on dashboard, deck binnacle. Spherical domed, self gimballed. This compass was designed especially for sailing yachts and can be read even when inclined up to 90°. Lubber line is gimballed with the card. Is normally mounted flush in the cockpit but can be supplied in binnacle if desired. A heavy duty lifetime compass manufactured of brass with a non-warping mica card. Price, $129.50.

PLATH T-51 YACHTSMAN

Recommended for all yachts—sail and power. Dimensions: outside diam. 5", outside height 5½". This model may be mounted on dashboard, deck binnacle. Diam. of card face 3.2", internally gimballed. Spherical dome all brass bowl, mounting pedestal equipped with built in correcting magnets. Hood with light for night use. Internally gimballed, lubber line gimballed with card. Floatless ring magnet. Imported from West Germany. Price, $49.50.

●

YUASA TRADING CO.
230 CALIFORNIA ST.
SAN FRANCISCO 11, CALIF.

SAURA HAND COMPASS

Precision instrument of fine workmanship, good damping and very sensitive for a small card compass. It is underlit and comes in a varnished carrying case. Ideal in bad weather or at night.

BAROMETERS, TIME PIECES & BINOCULARS

●

FREDERICK GOERTZ, LTD.
VANCOUVER, B. C.
DISTRIBUTOR FOR WESTERN CANADA

KELVIN HUGHES ANEROID BAROMETERS

These models have from 6" to 8" dials, and come in brass or chrome cases.

KELVIN HUGHES MARINE MERCURIAL BAROMETERS

To B.o.T. specifications, these models have Vernier reading in inches (or millimetres) and millibars, with thermometer. Weight, 5 lbs.

●

M. LOW INC.
44 FULTON ST.
NEW YORK 38, N. Y.

BAROMETERS

Complete line of clocks and barometers, 8-day ship's bell clocks with wheel or shield, with or without emblems. Brass clock on shield with ports-of-call crests, barometers on shields, choice of arabic or roman numeral dials, or 24-hour numeral dial and special movement, luminous dial and hands.

●

ZODIAC WATCH CO.
DIV. OF EDWARD TRAUNER, INC.
15 W. 44th ST.
NEW YORK 36, N. Y.

CLEBAR YACHTING TIMER

Timer has 7-jewel precision levered movement and has spare parts compartment. Dial is reversed to show time remaining until starting signal. Price: $34.

ZODIAC SEA WOLF WATCH

Waterproof watch is guaranteed to depth of 660 ft. Features include 17-jewel precision self-winding movement, unbreakable lifetime mainspring and balance staff. Outer movable bezel is calibrated to minute intervals. Price: $100.

●

FREDERICK GOERTZ, LTD.
VANCOUVER, B. C.

MODEL STEPTRON

Magnification, 8x. Object Glass, 30 mm. Field of view at 1,000 yds., 144 yds. Exit pupil dia., 3.75 mm. Weight, approx. 20 oz.

MODEL STEPLUX

Magnification, 7x. Oject Glass 50 mm. Field of view at 1000 yds., 122 yds. Exit pupil dia., 7.1 mm. Weight, approx. 36 oz.

●

CARL ZEISS, INC.
485 FIFTH AVE.
NEW YORK 17, N. Y.

HENSOLDT DIASPORT

8x20 binocular weighs 8¾ ounces and is 3" long. It is completely self-contained, with all moving parts totally enclosed. Field of view is 120 yds. at 1,000 yds. Price: $77 complete with case and neck strap.

BOATING ACCESSORIES

A LARGE PART of the fun, convenience, and comfort of your boating is supplied by the accessories carried aboard. Some of these are musts for safety, many will improve the appearance of your boat, and some will merely add greatly to the enjoyment of this sport of boating.

How To Use This Section

The following pages contain a listing of representative items made by outstanding companies in the marine industry. Each product, in many cases, is only an example of a very large selection of accessories available from the company. Development engineering by these experts has produced articles built to stand up under marine use. When looking for a specific item, study these pages for something similar and then write directly to the companies concerned. They will be glad to forward your inquiry to the proper department and frequently may be able to supply you with a brochure or catalogue listing exactly what you want. It is the extreme folly to use shoreside products for marine use. This is nowhere more true than in a choice of paint for your craft. Marine finishes are exposed to some of the severest conditions of wind, sun, salt, and weathering. Below the surface, new plastic base coatings and sealers have proven their worth for the boating trade. Frequently a new synthetic base product will solve that annoying coating or sealing problem that has been bothering you for years.

Buying A Trailer

The weight of your boat is an important factor in ordering a boat trailer. Add to the boat weight that of motor, full fuel tanks, controls, battery, fishing, camping and ground tackle, as well as safety equipment and any other items you habitually stow aboard. Then refigure the total load capacity of the trailer you will need. Trailer design has improved since the days when auto wheels and an axle were salvaged from a junk yard. Today's smaller diameter wheels can float a boat in relatively shoal water; trailers, have tilting beds for launching where the beach or ramp is steep, and have sealed wheel bearings so that they can be run right into the water. Other conveniences are available also. If you frequently load and unload alone, a power winch which runs off the car's battery can ease the task. Check the support that the trailer gives your boat's hull. A trip over a rough road can dent or even puncture the bottom if it only rests on a scant few braces or rollers. Are the number of tiedowns adequate to keep the craft from breaking loose, and is there a safety chain to the auto bumper? Check these points carefully.

ACCESSORY CHECK LIST

- ☐ **Is the article designed specifically for marine use?**
- ☐ **Is it corrosion resistant and sturdy enough to function under emergency stress?**
- ☐ **Is it a quality product whose performance you can trust?**

TRAILERS

- ☐ **Will the load capacity of the trailer you choose take the weight of your boat plus motor, luggage, camping equipment, tackle, fuel, and leave a safety margin?**
- ☐ **Is the hull supported in a few small spots only?**
- ☐ **Does it have a tilted bed for launching?**
- ☐ **Does the winch allow single-handed retrieving?**

SHORESIDE EQUIPMENT

- ☐ **Has similar equipment proved satisfactory in your area?**
- ☐ **Can it compensate for changes in water level?**
- ☐ **Is it suitably corrosion and ice resistant? Demountable?**
- ☐ **Can sections be added at a later date?**

WATER SPORTS ACCESSORIES

- ☐ **Do experts in your locale use similar equipment?**
- ☐ **Are the water skis well made and free from sharp edges?**
- ☐ **Is skin diving equipment you are considering too advanced for your present proficiency?**

MAINTENANCE EQUIPMENT

- ☐ **Are power tools now available to make your job more easy?**
- ☐ **Are the paints, varnishes, and sealers you are considering made expressly for marine use by a reputable company?**
- ☐ **Do they incorporate new tested improvements in this field?**
- ☐ **If you need anti-fouling bottom paint, is a type that has proven successful in your particular waters?**
- ☐ **Are the fiberglass and resin you are considering approved for marine use?**

Buying Water Front Equipment

For the boatman with limited docking facilities, the answer may lie in a patent dock or hoist, many of which are listed here. Designs are available for a constant water level or a level with tidal fluctuation, for fresh water or salt. Study the type of mooring and docking equipment in use around your area, and compare with items available from these pages. Many of these docking facilities are sheltered and may be used for winter storage as well.

Buying Water Sports Accessories

Once again, consult your local experts. Neither water skiing or skin diving are dangerous if they are practiced under the proper supervision. Never try to homemake SCUBA (self-contained-breathing-apparatus) yourself. Parts for this gear must be specially engineered and it is pointless to gamble a life for a few dollars saved. If you are a beginner, try snorkeling at first with inexpensive plastic breathing tubes and flippers. Water skis can be kit made, or purchased ready to go. Inflatable belts should be worn even by experienced skiers.

Buying Maintenance Equipment

Good power tools are the boatman's best friend when it comes to the task of fitting-out. Every boatman should avail himself, at least, of the time-saving features of the handy ¼-inch electric drill. With a few accessories your drill can become a circular saw, drill press, sander, polisher, and automatic screw driver. Pick a good one, rated for heavy duty use for it can be the most popular implement in your tool box. If you ever have a job to do that calls for driving many screws, one of the combination drill bits will be worth its weight in gold. This type of bit performs three functions—it drills the small pilot hole for the screw, a larger hole for its shank, and countersinks to fit the shoulder of a flat head screw. Power sanders, too, take much of the work out of a refinishing job. Oscillating, orbital and circular sanders each are best for particular sanding applications. Check with your dealer to see which is best suited to your needs.

TRAILERS

AMERICAN BOAT TRAILER CO.
12222 S. WOODRUFF
DOWNEY, CALIF.

BOAT TRAILERS
Designed for ease in towing on any road. Tilting mechanisms are standard equipment on most of the small trailer models; larger models are available with controlled tilt action. Thirty models are available to fit any popular type of boat from the smallest outboard runabout to a 6,000 lb. cabin cruiser. Trailers for catamarans are also available.

O. C. BAILEY CO.
521 S. WATER ST.
CORPUS CHRISTI, TEX.

SAILBOAT TRAILERS
A complete line of custom-built trailers are offered at prices ranging from $130 to $245. The trailers are built expressly for your type sailing boat, not the adjustable type. Padded cradles are furnished for not only the hull, but for the mast, boom and centerboards in most models.

BALKO, INC.
BOX 309, LADYSMITH, WIS.

BALKO TRAILER LINE
Twelve models are offered in 1960. The Fisherman Series will handle light-weight boats up to 14'. The Runabout Series will carry larger fishing boats and sleek runabouts up to 16'. The Small Cruiser Series are for off-shore fishing boats and small cruisers up to 18'. The Big Series will transport boats up to 24'. All Balko Trailers have passed rigid performance tests for one-man operation.

BILT-WELL
BOAT TRAILER CO.
82nd & BREWSTER AVE.
PHILADELPHIA 42, PA.

MODEL E-1800
Heavy duty trailer can handle 18' outboard cruisers up to 1500 lbs. It has 600 x 9 x 6 ply tires, and 73" width. Price, $440.50.

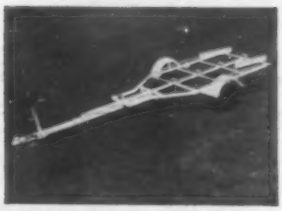
MODEL E-1200
Wide beam trailer can be used with boats up to 17½', single or dual motor installation, and has capacity of 1200 lbs. Demountable tires are 5.30 x 12 x 4 ply. Price: $330.50.

MODEL E-800
For 15' or 16' boats with motor on transom, trailer has optional extenders to carry up to 17' boats with motor on transom. Capacity is 800 lbs., and trailer has 4.80 x 12 x 4 ply demountable wheels. Price: $242.50; extenders, $16.75.

MODEL E-450
For 12' boats, with motor on transom, or 14' boats without motor, with capacity up to 450 lbs. One-man operated trailer has 4.80 x 8 x 4 ply wheels. Price: $154.50. Also available are extenders to enable trailer to carry 14' boats with motor on transom, $16.75.

MODEL E-600
For 14' boats with motor on transom, or 16' boats without motor, trailer has capacity of 600 lbs. and is equipped with 500 x 8 x 4 ply tires. Price, $205.50. Also available; extenders to enable trailer to carry 16' boats with motor on transom, $16.75.

BURNHAM PRODUCTS, INC.
4203 WEST HARRY ST.
WICHITA, KANS.



TILT-FRAME TRAILERS
Burnham trailers feature adjustable 30" support bolster, heavily padded with rubber to provide increased degree of cradling support for the boat. Available in 14', 16', and 18' models.

E. L. CALDWELL & SONS
BOX 2050, CORPUS CHRISTI, TEX.

CALDWELL TRAILERS
Caldwell Giant Tipper 20 offers exceptional keel support for 17' to 20' boats weighing from 2,000 to 2,800 lbs. Rectangular wheel box adjusts fore and aft for load balance. Also offered is the G-14-700 economy model which will handle 12' to 14' boats with a limit weight of 700 lbs.

COX TRAILERS
GRIFTON, N.C.

COX TRAILERS
Priced from $102.45 to $728 and ranging in length from 12' to 24', the Cox Trailers offer winch, lights and strap as standard equipment.

JAMES DANDY MFG. CO.
2214 GALLIA ST.
PORTSMOUTH, OHIO

COMPETITOR
Trailer for boats to 13' has wheel suspension of coil spring and shock absorber, and roller bearings and high-speed-tires. All rollers are equipped with bushings, and all rollers and bunkers are adjustable on threaded rods. Price, $124.50. Company also offers Minnow, for 14' boats, with same equipment and safety chain, $158.

BASS SUPER
Trailer for 15' boats has safety chain, tilt-loading frame of heavy gauge steel tubing, tie-down chains, twin tail, stop and turn signals, chrome wheel covers and 4-2ay 28" adjustable winch stand. Roller bearing and high speed tires are used, and all rollers are equipped with bushings. Price, $233. Company also offers similar trailers with same equipment, for larger boats. Pike 16', $275; Trout 17', $315, and Muskie 18', $373.

PERCH
Trailer for 15' boats has safety chain, tail light, wheel suspension of coil spring and shock absorber, roller bearings, frames and winch stands of round and square steel tubing, and all rollers are equipped with bushings and all rollers and bunkers are adjustable on threaded rods. Price, $182.

BASS
Trailer for 14' boats features safety chain, tail light, and tilt-loading frame. Other equipment includes wheel suspension of coil spring and shock absorber, roller bearings, high speed tires and frame and winch stand of heavy gauge steel tubing. Price, $197.

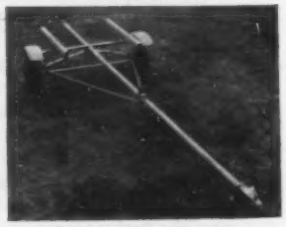
DUNBAR-KAPPLE, INC.
TRAILCAR DIV.
BATAVIA, ILL.

TRAILCAR MODELS
Two of the six Trailcar models offered by Dunbar-Kapple for 1960 are the 700 lb. capacity model, one of two offered in the economy line, and the 1,200 lb. capacity model, one of four offered in the deluxe line. All trailers feature maximum support for boat at both keel and hull through the addition of more bunks and rollers.

ESCO CORP.
BOX 68, CHARLOTTE 1, N. C.

ESCO BOAT TRAILERS
ESCO trailers feature a 4-way adjustable winch stand which adjusts to height of the bow-eye on any boat. An automatic tilt cradle and easy guide makes loading easy. Eleven models are offered in single or tandem axles for boats in lengths from 12 to 23 feet.

FLEET CAP'N TRAILERS
NEW BERN, N. C.



MODEL 1112
Trailer for boats 12' and 13'

with capacity of 350 lbs. Equipped with fenders, 480x8x4 ply tires and demountable wheels. Price, $114.50.

MODELS 1114 & 1114 DELUXE

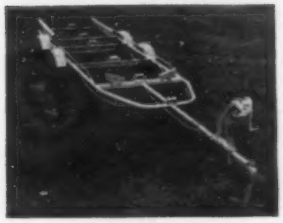
Trailers for boats 12′ to 14′ with motors. Capacity of 750 lbs. Feature fenders, winch and winch stand with bow stop roller, 480x8x4 ply tires and demountable wheels. Deluxe model also features other equipment and tilt tongue. Prices: Deluxe, $197.50; Standard, $169.

MODEL 1118

For boats 17′ and 18′ with motors, trailer has 1400 lbs. capacity, and includes fenders, heavy duty winch and winch with bow stop roller, adjustable front and transom bunkers, tilt-tongue and "Transom Lift." Price: $297. Model is also available with tandem axles, capacity of 2500 lbs., but without tilt-tongue. Price, $395.

MODEL 1120

Tandem trailer for boats 19′ and 20′ with motors, and includes fenders, heavy duty winch and winch stand with bow stop roller, adjustable front and transom bunkers and demountable wheels. Capacity is 2500 lbs. Price: $425.



MODEL 1122

Tandem trailer for boats 21′ and 22′ with motors, and has capacity of 2500 lbs. Includes fenders, heavy duty winch and winch stand with bow stop roller, adjustable front and transom bunkers and demountable wheels. Price $445.

●

HILLTOP BOAT TRAILER CO.
WAUSEON, OHIO

MODEL 1216 SVD

Dual wheel trailer originally designed for new Turbocraft Jet Boat. Will handle 18′ to 20′ inboards and has capacity of 2,500 lbs. Hilltop has also made engineering changes in its regular line of trailers which include models from 12′ to 20′ and capacities from 500 to 5,000 lbs., plus a complete line of transport 6-boat carriers 32′ long, 2-boat and 3-boat carriers.

●

HOLSCLAW BROS., INC.
408 N. WILLOW RD.
EVANSVILLE, IND.

HOLSCLAW TRAILERS

1960 line includes trailers with capacities ranging from 400 lbs. to 3000 lbs., for handling boats up to 23′ in length. Trailers can be ordered with straight or tilt tongue, and furnished with either 8″ or 12″ wheels. Box frame accessory makes it possible to convert any straight or tilt tongue trailer in this line into a box frame or A frame type trailer. Rubber rollers are standard on all models, and accessories are available.

●

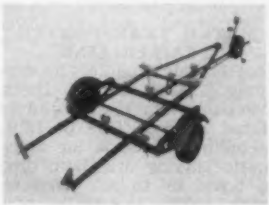
IMPERIAL TRAILER CO.
BOX 4024, FORT WORTH, TEX.

IMPERIAL TRAILERS

All Imperial Trailers feature a highly-stylized red and white baked enamel finish. Welded steel construction with handy drop-away lever to lower hull pad and eliminate drag during unloading. A complete series of models are available with load capacities ranging from 500 lbs. for the small economy model for fishing rigs to the 3,000 lb. capacity heavy-duty tandem for big craft.

●

KINGFISH BOAT TRAILERS
119 E. MARTIN ST.
SAN ANTONIO, TEXAS



MODEL 1050
KINGFISH BOAT TRAILER

Trailer has maximum capacity of 1200 lbs., and can be used with boats up to 17′. Structural steel pipe and channel iron are used in welded construction. Tire size is 18x5.50 x8 4 ply or 4.80x4.00x12 4 ply, optional, with dolly wheel standard equipment on all models. Price: $294.50. Company also offers line of trailers for boats 14′ to 21′, with capacities from 750 lbs. to 3000 lbs.

Boating Enthusiasts! Outdoor Men!

COOK IN STYLE

with this NEW PATRIOT WARE Compact Cooking Kit!
(stainless steel)

EVERYTHING YOU NEED TO COOK A COMPLETE MEAL

Four stainless steel Patriot Ware utensils with detachable handles—nest together in one compact kit! Takes just one cubic foot of space. Perfect for picnics, boating, camping out or weekending in the country.

CONTAINS:
- 10″ skillet
- 5 qt. mixing bowl, usable as dishpan, skillet cover or oven!
- 3 qt. covered sauce pan
- 1½ qt. covered sauce pan
- Recipe book, list of recommended foods and supplies for outdoor cooking

All pieces are corrosive resistant, have heatlined inner core for fast, even cooking. Safe and easy to handle. Perfect for home use, too. Enjoy real home-style cooking outdoors or on your boat. Order now by coupon below.

PRICE **$34.95*** COMPLETE

*State and local taxes extra

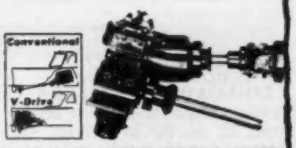
REVERE COPPER AND BRASS INCORPORATED
Rome Manufacturing Company Division
Dept. PB20, P.O. Box 111, Rome, New York
Gentlemen:
Here's my check or money order for $34.95 (plus tax). Please rush me my complete Revere Patriot Ware Compact Cooking Kit with recipe book!
Name.....
Address.....
City.....Zone.....State.....

WANT MORE CABIN SPACE?

V-DRIVE YOUR BOAT

with a dependable, economical Walter V-Drive and get more advantages for your money. Made by The Walter Machine Co., Inc., pioneers in marine gears and makers of Reduction Gears, Transfer Drives, and Keel Coolers.

SMALL BOATS CAN BE CONVERTED EASILY FOR INBOARD USE. WIDE RANGE OF RATIOS AND SIZES. MANY OUTSTANDING ADVANTAGES. ILLUSTRATED LITERATURE ON REQUEST.



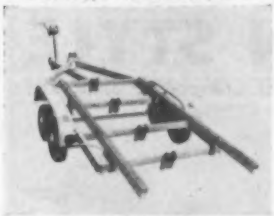
SEE US AT N. Y. SHOW—BOOTH #C222

Walter V-Drives THE WALTER MACHINE CO., Inc.
84 Cambridge Ave., Jersey City 7, N. J.

Westlawn School of Yacht Design

Home Study Course—30th Year
Most Yacht Designers are Westlawn-Trained
Free Booklet Montville 4, New Jersey
Approved by State Board of Education

LITTLE DUDE TRAILER CO., INC.
BOX 4513, FORT WORTH, TEX.



LITTLE DUDE 2417

The Little Dude Trailer Model 2417 is engineered for a load capacity of up to 2400 lbs., with tandem equipment to handle tough hauling. Wide-gauge frame, overload springs and tandem wheels assure stability. Features extra-long hull support cushions, transom support release for drag-free launching, double-geared winch and Rocking Boom Platform loading.

LITTLE DUDE 714

The Little Dude Trailer Model 714 is designed for small fishing rigs and lightweight runabouts. Dual elliptical springs allow for smoother ride. The ruggedly constructed 714 is designed for a 700-lb capacity. All Little Dude Trailers have cad-plated brackets for trouble-free service and baked enamel finish in oyster white to complement any color boat rig. Little Dude offers complete deluxe services for rigs from 14 footers to heavy-duty outboard and inboard cruisers.

LONE STAR BOAT CO.
1930 E. MAIN ST.
GRAND PRAIRIE, TEX.

LONE STAR TRAILERS

Lone Star Trailers are designed to fit all boats properly. Feature padded bolster, transom rollers, keel rollers. Trailers are constructed of square tubing and channel steel. Sturdily constructed, the Lone Star Trailers protect against hull damage.

F. A. LONG CO.
BENTON HARBOR, MICH.

LO-LOADER TRAILERS

Trailers are available for boats from 12′ to 20′ in length, all featuring adjustable winch stand, winch, stop and taillights, electrical wire with receptacle and license plate bracket, as well as "elevator action" hydraulic power to lower trailer bed to water or ground level with low angle of incline.

MARINECRAFT
P. O. BOX 161
BRIGHTON, MASS.

TRAILER KITS

Models available include partial and full kits, with capacities from 900 lbs. up.

MARINECRAFT TRAILERS

Line of trailers includes models for boats from 12′, 14′ or 16′, with capacities from 900 lbs. up. Features include easy dissembling, portability, and trailers are also available in tandem units, and for inboard boats and sailboats. Prices, from $139.50 up.

MASTERCRAFT TRAILERS, INC.
MIDDLETOWN, CONN.

VOYAGER TRAILER

Deluxe addition to heavy-duty trailering is the tandem-wheel Voyager, designed to bring efficiency and speed to big-boat handling. The Voyager can transport a 2-ton, 25′ long craft and has adjustable keel and cradle rollers giving a sedan cruiser secure, evenly balanced support. A 2-wheel version is also available. Mastercraft now offers 5 separate series of trailers, with full complement of accessories and combines span load capacities ranging from 300 to 6,000 lbs.

CADRELINE TRAILERS

Series consists of six break-frame trailers for boats from 14′ to 21′, weighing from 600 lbs. to 2500 lbs. Features include ramp lock, full-length channel support for the tow bar, Ezy-Vee automatic loading guides, adjustable padded bunks and keel rollers, total-tilt steel frame, automotive-type demountable wheels, adjustable running gear and tow bar, and geared winch.

HEAVY-DUTY SERIES

Series consists of three trailers with carrying capacities from 2000 lbs. to 6000 lbs., for boats up to 24′. Featured are semi-elliptic, special alloy steel springs; jack and parking dolly; heavy-duty, six-ply tires and 4″ drop axle of pre-cambered steel tubing.

CONVERSION TRAILERS

Series consists of six models with capacities from 600 lbs. to 2500 lbs., for boats from 14′ to 21′. Basic trailers are designed to adapt to hard-to-fit boats such as inboards, centerboards and catamarans. Features include total-tilt frame, adjustable running gear, frequency dampening springs and demountable wheels.

KITCRAFT TRAILER

Trailer can be used with boats up to 14′, and has capacity of 300 lbs. Features include multi-position running gear, anti-shock spring suspension, adjustable bow rest, keel and cradle rollers, and demountable wheels with waterproof hubs.

MONTGOMERY WARD & CO.
618 W. CHICAGO AVE.
CHICAGO 7, ILL.

SEA KING 1000 TRAILER

Sea King model 1000 boat trailer has 1,000 lb. capacity. 16′ long, it takes boats up to 17′. Introduces new V loading guide with tilt bed to facilitate loading regardless of wind or current. Rollers and padded bunks support hull for safe trailoring. 65″ road tread, stabilizers and shock absorbers give boat level, smooth ride. Priced at $198 F.O.B. Chicago, the model 1000 is one of 7 trailers offered in 600 to 2,500 lb. capacity.

NORJACK INC.
600 S. 108TH ST.
MILWAUKEE 14, WIS.

MATCO HEVI DUTY TRAILER LINE

Ten models are available for runabouts, outboard cruisers, inboard boats and sailboats, from 17′ to 22′ long, 1,200 lbs. to 4,000 lbs. capacity. Electric brakes are available on all models. Features include all steel welded frames, steel axle, fully adjustable forward or back, heavy tapered spindles with sealed Timken tapered bearings, demountable wheels, and rubber mounted automotive type leaf springs and rubber bushings. Company also offers Hevi Duty Tandem trailers, for boats 20′ to 30′, weighing from 4,000 lbs. to 10,000 lbs. Geared winches are available for pulling boat onto trailer.

MATCO TRANSPORTER TRAILER LINE

Models include trailers for carrying 2, 4, 6 or more boats. Company also manufacturers Natco Tandem Tip-Top Line, including 6 models for automatic loading and launching of boats 18′ to 22′, weighing from 1,500 lbs. to 4,000 lbs., and also Norjack line of accessories and axle kits.

PACEMAKER BOAT TRAILER CO., INC.
422 E. GLENOLDEN AVE.
GLENOLDEN, PA.

MODEL 1500
PACEMAKER TRAILER

Trailer has capacity of 1800 lbs., and will carry outboard cruisers from 17′ to 20′. Features include Playloader for loading and launching, complete adjustable running gear for proper balance. Equipment lists 690/600 x 9—6 ply wheels, high speed Timken tapered bearings, heavy gauge fenders, stop and tail light, extra heavy duty winch, rubber covered side bunks, extra heavy duty rollers and safety chain. Price: $419.95.

MODEL 525

Capacity 500 lbs., 14′. Features adjustable running gear, easy glide center rollers, welded steel tubing frame, rubber covered side bunks, waterproof wheels, full tilt boom and bed trailers. Price: $179.95. Also available: full line of boat trailers including Model 1500, capacity 1800 lbs., 20′.

PETERSON BROS.
P.O. BOX 51, STA. G.
JACKSONVILLE, FLA.

GATOR STANDARD TRAILER MODEL #214

Uni-lever trailer is for use with boats 13′ to 14′ in length, and has 900 lb. capacity. Self-tilting trailer is available in 5 lengths, for boats up to 18′ in length, and has 1,450 lbs. capacity. Line includes two single-axle and five tandem-axle models, all equipped with mechanical tilt-launching jacks and three-speed winches. Accessories include Bendix brakes for trailers with capacities over 1000 lbs., and Powerwinch, driven by car battery, for all models. Price: Model #214, $232.

SUPER-GATOR TRAILER MODEL #417

Uni-lever trailer for boats 16′ long weighing up to 1300 lbs. features streamlined styling, snap-down parking wheel, and loading guide. Standard equipment includes full directional lights, walkboard and safety chain. Super-Gator line includes trailers in 5 lengths for boats from 13′ to 18′ in length, with capacities from 900 lbs. to 1450 lbs. Two single-axle and five tandem-axle models are offered, all with mechanical tilt-launching jacks and three-speed winches. Price: Model #417, $339.90; loading guide, $17.90; and parking wheel, $13.

CHAMP TRAILERS

Outboard economy trailer line has simplified tilt-frame launching and loading, Class A light with full wiring, safety

chain, and torsion-axle. Trailers are available for boats from 12′ to 17′ in length, with capacities from 350 lbs. to 1300 lbs. Price: Model #161, for 16′ boats, $99.95.

GATOR MODEL #725
Line includes trailers for inboard boats from 16′ to 25′ in length, weighing from 1800 lbs. to 5000 lbs. Trailers have fully adjustable front and rear cradles and are equipped with geared parking jack and wheel and full twin-lamp directional signals and wiring. Price: Model #725, for boats 24′ to 25′, $599. Tires and brakes are extra.

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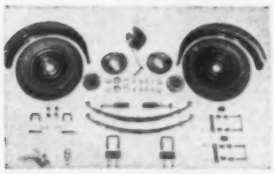
PRIOR PRODUCTS, INC.
4828 RACELL ST.
DALLAS, TEX.



TRAILER KITS AND PARTS
Kits available include models with 12″ wheels and tires, 1,000 lb. capacity, and 8″ wheels and tires, 1,000 capacity, and 8″ integral hub wheels and tires, 1,000 lb. capacity. Also available are demountable hub groups, wheels and tires, fenders, integral wheel and hub assemblies, Linco axles, straight axles and spindles and winches, hitches and balls.

●

RAMSEY TRAILERS
BOX 147, SHARPTOWN, MD.

RAMSEY TRAILERS
Full seam welded A-type frames with solid steel axles. 14′—500 lb. to 18′—2,000-lb. capacity. Skipper models in 22 ft.—6,000 lb. to 25′—10,000-lb. capacities. Transport racks for hauling multiple units of outboard boats available for use on 25 ft., 28 ft., and 30 ft. trailers, which are detachable for exhibit purposes and can be disassembled for one-way transport. Deep keel and custom sailboat trailers available on order.

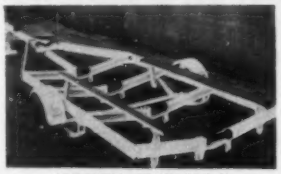
●

SELMA TRAILER & MFG. CO.
P. O. BOX 120
SELMA, CALIF.

MODEL DLV-1200-9
Trailer is for use with boats from 15′ to 18′, and has capacity from 1,200 to 1,700 lbs. Features include two 6′ longitudinal chocks, heavy duty tipper box frame, 500 x 8 tires, tubes

and wheels, adjustable running gear and fenders, 1-9″ keel loading roller and 3-6″ keel support rollers. Price, $245.80.

MODEL ELT-2000-9
Trailer is for boats 18′ to 20′, weighing 2,000 lbs. to 2,500 lbs. Features include four 6′ longitudinal chocks, box frame, 500 x 8 tires, tubes and wheels, tandem axles, adjustable running gear and fenders, 1-9″ keel loading roller, 4-6″ keel rollers and bow rest. Price, $478.65.



MODEL CLV-850-9
Trailer is for use with 13′ to 16′ boats, and has capacity from 850 lbs. to 1,000 lbs., Vee-frame, non-tipper with 400 x 8 tires, tubes and wheels. Equipment includes adjustable running gear and fenders, 1-9″ keel loading roller and 2-6″ keel support rollers. Price, $221.95.

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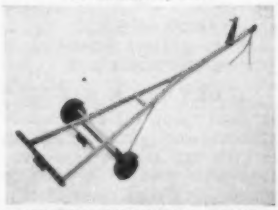
SEARS, ROEBUCK & CO.
925 S. HOMAN AVE.
CHICAGO 7, ILL.



ELGIN TRAILER #6150
Holds boats up to 14′ centerline. 600 lb. capacity. Features winch stand, safety chains, fenders, rollers, swivel bunkers, and individual wheel suspension. Priced at slightly over $100. The Elgin line of trailers starts with the 600 lb. capacity model and ranges to the Deluxe model, which sells for about $425 and carries a load of 2000 lbs.

ELGIN TRAILER #6803
Holds boats up to 15′ centerline. 800 lb. load capacity. Tilt bed for ease of launching and loading. 1000 lb. capacity winch, rope and S hook. Bunkers adjustable for width, pitch and height. Hold downs and broad skid proof cat walk. Priced well under $200.

●

SIMEK MANUFACTURING, INC.
JOHNSTOWN, N. Y.

SHIPMATE MODEL 759
Aluminum trailer is for boats up to 13′6″, weighing up to 700 lbs., and features transom support, tilt bed frame, booster coil springs, gear winch, keel and bow non-marking rubber rollers, tapered bearings, neoprene seals and padded rear cradles. Price, $198.50.

SHIPMATE MODEL 1058
Aluminum trailer is for boats 14′ to 17′6″, weighing to 1,000 lbs., and is available in two models, the A-Frame, and Model 1058-T, a T-Frame. Both models have 5.30-4.50 x 12 tires, with optional 5.70-5.00 x 8 tires. Trailers have step-on non-skid diamond tread fenders, adjustable rubber keel support rollers and cradles, demountable wheels, elliptical leaf springs, Timken roller bearings, double-geared enclosed winch and adjustable hold-down chains.

●

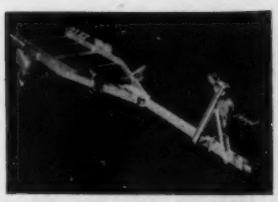
T & T
1115 S. SIXTH ST.
ROCKFORD, ILL.

TRAILERS
A complete line of trailers and trailer accessories are offered including winches, tail-lights, transom tie-downs and boat drain assemblies.

●

TEE-NEE TRAILER CO.
YOUNGSTOWN, OHIO

TEE-NEE TRAILERS
Line of trailers includes 13 A-Frame and T-Frame styles of all types of hull designs up to 3,400 lbs. Fin-type is featured on some trailers, while other features include increased-pull winches, roller-type cra-



dles on all models except light load model and break-frame designs.

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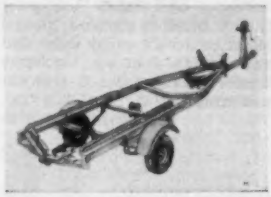
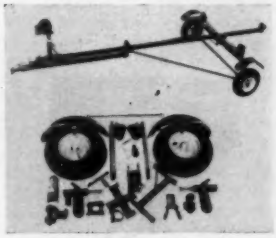
TENNESSEE TRAILERS
1313 E. MAIN ST.
CHATTANOOGA, TENN.



MODEL 750-16TT
This sturdy 16′ trailer will handle boats up to 750 lbs. and is only one of the many models offered in kit form. Price $208, less tax. All Tennessee Trailers include winch, winch stand, quick-opening hitch and taillight brackets. Available are deluxe kits which include chain or nylon tie-downs, directional lights with wire and fittings, winch cable and safety cable.

●

TRAILER PRODUCTS CO.
BOX 302, KINGSPORT, TENN.



TRAILER KIT
The fully engineered boat trailer kit features quick assembly and fits any boat up to 16′ and holds up to 1,000 lbs. No special tools or skills are necessary for assembly. Total price is $59.50 plus shipping charges. Package weighs 70 lbs.

TRAILER ACCESSORIES

●

AIROLLER CO.
GUILFORD, CONN.

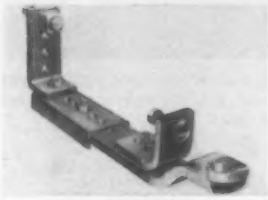
AIROLLERS
Canvas-rubber lined cylinders are inflated to low pressure by mouth, and boat can be unloaded from trailer onto pair of Airollers, then rolled over terrain to water. Can be used over mud, rocks or soft sand with no damage to hull or paint. Available are following sizes: Outboard, for boats to 700 lbs.; Standard, to 1,200 lbs.; Super Tuff, to 1,800 lbs. and Cruiseroller, to 3,000 lbs. Prices, $9.95; $17.50; $24.50 and $39.50.

●

ALLAN MARINE CO.
325 DUFFY AVE.
HICKSVILLE, N. Y.

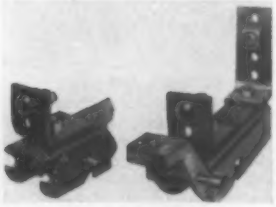
TRAILER TIE-DOWN
Sturdy webbing is made of tough, long-wearing nylon that will not fray or break. 16′ in length. Parachute-type hardware. Price, $7.95.

BIG BOY PRODUCTS DIV.
DALTON FOUNDRIES, INC.
WARSAW, IND.



FIXT-HITCH

Trailer hitch is economy model designed to fit most cars and has extra heavy bumper bracket to meet S.A.E. test requirements.



SAFE-A-WAY

Trailer hitch has retractable ball platform which folds out of sight under automobile bumper when spring-loaded safety catch is pulled.

C.L.B. CO.
P.O. BOX 6031
HOUSTON 6, TEX.

UNIVERSAL 100

No wires needed with this completely self-contained battery-powered combination stop, tail and license plate light. Just clamp the TrailLite to the trailer, turn on the switch and the fully automatic Nertia switch goes into action to operate the stoplight whenever brakes are applied. Price: $9.95. C.L.B. Co. offers other models, which operate off the boat battery.

DRAW-TITE MFG. CO.
BELLEVILLE, MICH.

TRAILER WINCH

Heavy duty boat trailer winch with double gear reduction, spring-loaded ratchet and separate mechanical hand brake. A 30 lb. effort on winch handle produces a pull of 3,500 lbs. Other features include removable handle, safety chain, and two-speed, straddle mounted pinion gears. Winch is cadmium plated over steel. Two smaller models, of 700 and 500 lbs. capacity, are available for handling small boats.

DRAW-TITE HITCHES

Each hitch is custom made for a particular car make, year, and model. Utility model handles to 2000 lb., attaches to both frame and bumper, only ball shows when installed. Chrome or cadmium plating

over cold rolled steel. Heavy duty model handles to 5000 lbs.; both models install in 15 minutes. Also available: Cam-Tension Trailer Coupler, handles to 2500 lbs., has tongue-grip channel construction, safety chain, positive cam action.

THE FULTON CO.
MILWAUKEE, WISC.

FULTON HITCHES

Fulton No. 175 frame hitch features a draw-bar that can be removed and replaced in seconds without tools. There are no bolts or pins to remove, no moving parts exposed to road grime and rust. Fits most late model cars. Other models of hitches in cadmium plated or triple chrome plated metals.

FULTON WINCHES

Three new winches with higher gear ratios and load capacities feature 1¾" hubs, furnace brazed pinion gears, adjustable clamps, 2-way ratchet with "off" position, plastic roller grip handles, oil impregnated, high pressure powdered iron bearing throughout. No. 294: capacity 1,400 lbs., gear ratio 5:1; No. 292: cap. 1,200 lbs., gear ratio 4:1; No. 290, cap. 1,000 lbs., gear ratio, 4:1.

GENERAL LOGISTICS DIV.
AEROQUIP CORP.
2929 FLOYD ST., BURBANK, CALIF.

AEROQUIP TIE-DOWN

Can be used as boat-to-trailer tie-down, water ski tow, and outboard motor safety chain anchorage. Attaches to transom, distributes load over transom. "Weblock" strap assem-

bly provides quick attachment or removal of tie-down, eliminates knots, has rated strength of 600 lbs. per assembly. Further information on request.

GROTE MFG. CO.
BELLEVUE, KY.

TRAILER LAMP KITS

Kits are available with portable "clamp-on" stop, tail and turn signal lamps, as well as lamps for permanent attachment. Kits are complete with lamps, brackets, wiring harness, hardware and instructions.

LAKEVIEW MFG. CORP.
4920 N. WOODBURN ST.
MILWAUKEE 17, WIS.

KEVLOK FASTENERS

Kevlok fasteners are available from ½" wide, with webbing tensile of 500 lbs. to the 1¾" heavy duty, with or without integral hook, with webbing tensile of 10,000 lbs. 100 per cent nylon. 705 Kevlock fastener boat tie-down kit, 1¾" wide, with tensile strength of 6,600 lbs. and 13' long is priced at $9.75.

M & B SALES CO.
2615 LOVE FIELD DR.
DALLAS, TEX.

NYLON TIE-DOWN STRAPS

The trailer tie-down straps feature release handle, tie-down handle, nylon webbing and safety ease adjuster. Price, $6.45.

PETERSON BROS., INC.
P. O. BOX 51, STA. G.,
JACKSONVILLE, FLA.

GATOR CLASS A DIRECTIONAL LIGHTS

Legal in all states. Also conversion units for expanding ordinary single tail lamps into directionals. Kits contain lamps, wiring, hardware, diagrams. Also now available is "Gator Guide" for loading boats in strong winds and currents; can be adapted to most trailers. Features free running rollers that cannot damage boat. Other available accessories: Snap-down parking wheel which can be locked in "up" position and fits any trailer with 2⅝" square tongue; Nylon tie-down straps available in 10', 13', and 16' lengths.

SEABRIGHT
MARINE HARDWARE
1630 SUPERIOR AVE.,
COSTA MESA, CALIF.

DINGHY DOLLY

Lightweight Anodized aluminum dolly capable of moving boats up to 9'. With white rubber tires. Price, $39.50.

WEST GEORGIA MILLS
NOVA DIV., WHITESBURG, GA.

NYLON WINCH LINE

The Sea Horse line of marine products consists of 25' or 50' of 100 per cent nylon line, with a metal "S" hook at one end. Tensile strength is 1,000 lbs. Price for 25', $1.89; for 50', $2.98.

DOCKS & FLOATS

ARCO MFG. CO.
1701 13TH AVE. NORTH,
GRAND FORKS, N. D.

DRY DOCK KIT

32' boat ramp kit can handle all boats and pontoon craft up to 1,000 lbs., and can be operated with manual or electric winch. Dry-dock uses system of rubber wheel assembly to track boats. Price: ramp kit, including wheels, steel parts for lower and upper sections and winch tower assembly, $89.50. Boat winch, complete less motor and cable, $37.95. 16' lower section kit, $47.95. 16' upper section kit and winch tower, $41.95.

CAHILL-DAVIS CO.
37 McKINLEY PL.
GROSSE POINTE 36, MICH.

TRAILER-BOAT LAUNCHER

The Cahill-Davis Launcher is prefabricated and is easily assembled in a matter of a few hours. It eliminates the costly construction of hard surfacing under water and can easily be adjusted for low and high water stages. Prices range from $1,500 to $2,000.

CENTRAL MACHINE WORKS
1278 CENTRAL AVE.
MINNEAPOLIS 13, MINN.

PERMA-DOCK BOAT CANOPY

The Do-It-Yourself Perma-dock Boat Canopy is easily and quickly erected on shore

and moved into place over the boat mooring. All steel, galvanized construction with preformed bows and horizontal tubing cut to exact lengths needed. Canopy comes in two sizes: 9' x 20' priced at $148; 9' x 24' priced at $175. Other sizes available upon request.

HUSSEY MFG. CO.
N. BERWICK, ME.

POLY-FOAM FLOAT

Made of light, buoyant, flexible Styrofoam that will not corrode, rust, rot, mold, or de-

teriorate. Temperature resistant, will not sustain marine life or other pests. Available in 2 tone blue, aqua and maroon, completely water-ready or as kit. Price, 6' x 10' as-

sembled float section (sections easily joined), $249. 6'x10' float section kit, $216.

SECTIONAL LANDING PIER

"Laughing Loon" sectional piers come in ready to install 12' sections, 4 or 6 ft. wide, with steel supports. Easy to unmount and store. Metal parts resist corrosion and freezing. 4' x 12' sections, complete with adjustable steel horses, start at $123; complete 6' x 12' sections start at $142.

●

KLEIN STEEL CO.
408 N. BUCKEYE ST.
BELLEVUE, OHIO

KLEECO STEEL FLOATING BOAT HOUSES

Boat houses are constructed of 11 gauge (⅛") steel, except for wood purlins, with a choice of corrugated galvanized steel or corrugated aluminum sheet for roof and wall sheeting. All models are built around basic design using two steel floating tanks with watertight bulkheads. Floating tanks are connected at closed end of boat house by reinforced walkway which holds tanks in proper position. Three models are available, 20', 30' and 40', as standard, with others available on custom-design basis.

●

ALUMIDOCK DIVISION
METALLIC LADDER MFG. CORP.
2 SHELDON ST.
RANDOLPH, N. Y.

WATERFRONT EQUIPMENT

Each sturdy 8' section weighs 45 lbs. complete with standards which permit flipping the dock into place without entering the water. Decking is non-slip and made of Alcoa corrosion resistant aluminum alloys. Other Alumidock products are aluminum ramps, floats, stairways and waterfront accessories. Catalogue available.

●

METALLOY PRODUCTS CO.
HUDSON, MICH.

ALUMA-SPAN PIER

Lightweight aluminum pier can be built to desired length and shape and is easily installed and removed. Self-securing auger heads anchor solidly in any type of bottom. Standard assembly consists of 2 round uprights with cast aluminum auger heads; two aluminum crossbar; two cast aluminum clamps and two cast aluminum stringer brackets. Uprights come in 4', 5', 6', 7', 8', and 10' heights; crossbars in 3', 3½' and 4' widths. Wood or aluminum decking available. Price: varies with size of pier.

●

NORTHWEST GEORGIA ENTERPRISES, INC.
P.O. BOX 266
ROME, GA.

TIP-TOP BOATHOUSE

17' long, 6' wide, approximately 52" high floating boathouse has steel frame and corrugated aluminum top, and is designed for boats with not over 5' beam and total weight of boat and motor not over 400 lbs. Unit has system of counterweights and pulleys that lift boat out of water as top is closed, and lower it as top opens. Boathouse can be hitched to dock, shoreline or anchored. Drums for floating are optional. Price: $410. Other floating boathouses are available with frame lengths in varying sizes up to 41'.

TIP-TOP FLOATING DOCKS

Docks have frameworks of steel bars and angles, and are available in lightweight models, with hardwood decking, and heavyweight models with decking of 2" creosoted pine. Light models are designed to be floated on 55 gallon oil drums, heavy ones on Styrofoam flotation, or drums, optional. Lightweight models available are 4'x14' and 8'x14'. Heavy models include 5'6"x16' and 8'x20'. Special sizes on request. Prices from $69 to $590.

●

REX METAL-CRAFT, INC.
1717 GENT AVE.
INDIANAPOLIS 2, IND.

FLOATING BOAT DOCK

Rex Metal-Craft offers a complete line of hardware to build a sturdy floating boat dock.

●

ROYAL MARINE PRODUCTS CO.
3864 FLATLANDS AVE.
BROOKLYN 34, N.Y.

CORNER BOAT DOCKING WHEEL

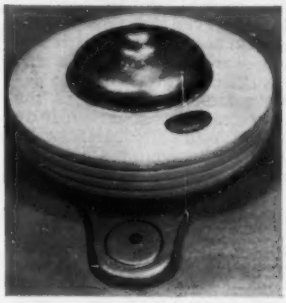
Rubber wheels are installed to dock and extend out to 5" to prevent gouging and scraping. Tire is of non-marking solid soft white rubber with iron mounting base. Price: $18.75. Also available is dual docking and boat fender wheel, similar construction. Price: $28.50.

●

SEABRIGHT MARINE HARDWARE
DIV. OF NEWPORT SUPPLY CO.
1630 SUPERIOR AVE.,
COSTA MESA, CALIF.

EMMICK DOCK WHEEL

Has heavy-duty iron base, heavily galvanized, and requires no maintenance except occasional lubrication. Wheels are fitted with resilient, oversize white rubber tires, and allow free up-and-down play so wheel will roll and ride with listing of boat. Prices, Model 275-C 10" corner mount, $39.50 pr.; 275-S 10" side mount,



$39.50 pr.; 400-C 16" corner mount, $75 pr., and model 400-S 16" side mount, $75 pr.

●

STANDARD PRODUCTS CO.
PORT CLINTON, OHIO

RUBBER DOCK BUMPER

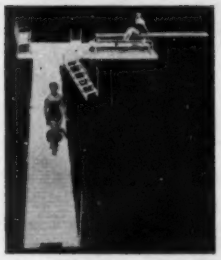
StanPro Flanged Dock Bumper is designed to protect boats from marring or damage from impact against dangerous angular surfaces at mooring berth. Made of natural rubber, the bumper will not mark hulls. Price, $1.40 per foot.

●

STANDARD STEEL PRODUCTS MFG. CO.
2836 SOUTH 16th ST.
MILWAUKEE 15, WIS.

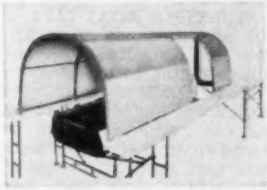
FLOATING DOCK

New Standard Steel Floating Dock is ideal where leg-supported pier is impractical. Platform is basic 6'x16' size floating on 2 sets of twin steel pontoons. The approach ramp is 32' long, made up of 4 steel, non-skid platform sections, securely hinged at float and shoreline, with new suspension-type bracing for extra rigidity.



MODEL F-3

One of the most popular of Standard Steel's sectional piers, this Model F-3 includes four 8' steel sections with embossed non-skid surface, telescopic tubular steel leg supports, a wide 6'x17' 4-section platform that provides plenty of space for a one meter diving platform, bench, ladder, safety steps secured to corner walk unit, boat mooring arms and rope railing. Total length is 38'4", with bolted construction throughout for easy installation.



BOAT CANOPY

Available in 3 brilliant colors, gold, green and red, the new Standard Steel Nylon Canopies are made of special close-woven Nylon and are easy to install on specially designed tubular steel reinforced semi-circular ribs or frames, which are finished in rust-resisting, durable marine enamel. Prices start at $146 for the 6'x15' size, complete with frame. Further details on new Nylon Canopy, its sizes and prices, can be obtained from the manufacturer.

BOAT HOISTS

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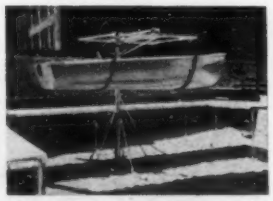
DELWELD CO.
149 S. 1st ST.,
MILWAUKEE 4, WIS.



BOAT HOIST

The Delweld Boat Hoist has a special swivel arrangement available for boats to 700 lbs. It permits swinging the boat over the pier for convenience in working on the boat. Without swivel arrangement, hoist will handle boats up to 1,200 lbs.

●

FULLER FLORIDA LIFTS
ROUTE 1, BOX 290
MOUNT DORA, FLA.

FULLER BOAT LIFTS

Electric boat lift will keep boat out of water and give complete protection. Manually operated boat lifts also available.

●

KING MANUFACTURING CO.
3139 W. CHICAGO AVE.
CHICAGO 22, ILL.

75 ELECTRIC HOIST

A compact unit used to pull boats into dry dock or boat houses. It is equipped with a ¾ HP motor either single phase or three phase and is reversible for paying out cable. This model is push-button controlled so that operator can walk alongside boat while it is being pulled in. Brake on motor holds the load when current is off so no mishaps occur. Price, $570.

PETERSON BROS., INC.
P. O. BOX 51, STA. G.,
JACKSONVILLE, FLA.

PORTABLE MOTOR HOIST
Especially for use with large outboard cruisers. Will clear low doors; rolls over rough ground; will not tip over. Has winch, safety brake, hydraulic controls.

REIMANN AND GEORGER, INC.
1849 HARLEM RD.
BUFFALO 12, N. Y.

MULTIPLE BOAT LIFT
Lift handles boats up to 6½′ wide and 1200 lbs., with one unit fastening to the other in a line to handle as many boats as desired. Each lift has its own cat walk, which can be extended to shore or main pier, and each lift requires 8′2″ width of dock space. Leg extensions are steel pipes 2⅜″ in diameter and can be adjusted above water level with a standard car jack. Prices: $180 first complete unit; each succeeding unit, $145. Accessories include aluminum covers, side and end curtains.

MODEL OB-1000 OUTBOARD BOAT LIFT
Lift is equipped with plastic slings for outboard boats up to 6½′ wide and 1000 lbs. It features bottom and top angle iron bracing, and has adjustable legs for uneven bottoms. Lift is 13′ high. Price: $145 without aluminum cover shown or other optional equipment. Electric power drive can be supplied instead of large handwheel, and other models are available to handle smaller and larger boats. Prices: from $97.50 to $195.

BEACHER RAILWAY
Handles boats of any length with beams to 7′, and weights to 1500 lbs. Boat is driven between mooring stakes, fastened with 2 elastic mooring straps and pulled up on shore. Carriage is made of steel channels and angles, mooring stakes of heavy rounded oak. Bow and stern supports are wood lined to protect boat. Price, $195 approximately, including 40′ of track, with extra track sections available in 10′ lengths. Hand winch or power winch is available at extra cost.

ROLFE PRODUCTS CO.
MASON CITY, IOWA

DELTA LIFT
Three-legged lift has delta-shaped boat platform with lifting action coming from a single stainless steel aircraft cable attached to front of the platform. Features include Fulton Automatic Safety brake winch, all tubular steel construction. Model 14 handles boats up to 17′ in length and 1000 lbs. weight.

MINNETONKA LIFT
All tubular steel lift is designed to handle sailboats, outboard cruisers and small inboards. It is available in two sizes: Model 1000 handles sailboats up to 20′ x 7′ weighing up to 1200 lbs., and Model 2000 handles sailboats up to 28′ x 7′6″, up to 2000 lbs. weight.

BOAT-SAVER LIFT
Tubular-steel lift has cantilever action for proper boat keel support, and is available in two models, Model 60 for boats up to 17′ x 6′, weighing up to 1000 lbs., and Model 70 for boats up to 17′ x 7′, weighing up to 1500 lbs.

THERN MACHINE CO.
3760 W. 4TH ST.
WINONA, MINN.

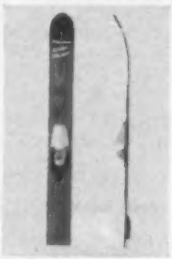
MODEL D50B PORTABLE FOLDING DOCK DAVIT
Davit lifts 500 lbs., and boom can be adjusted to lift 66″ high and swing in a full circle. Vertical mast is 42″ high and slips into a 2″ standard pipe bracket. Unit weighs 55 lbs. Price, $82.60.

TRAVELIFT & ENGINEERING, INC.
NAUTICAL DR.
STURGEON BAY, WIS.

TRAVELIFTS
Travelift is a free-traveling vertical lift carrier, with hydraulic steering, lifting and propulsion. Turning radius is short and maneuverability excellent. Travelift offers 17 different models in self-propelled, and rail mounted equipment.

WATER SKI EQUIPMENT

THE AMERICAN PAD & TEXTILE CO.
GREENFIELD, OHIO



TAPATCO WATER SKIS
Line of skis and ski accessories. Skis constructed of ash. In beginner's, children's, and advanced styles. Prices start at $27.50. Catalog on request.

B & E MFG. CO.
333 EXCELSIOR BLVD.
HOPKINS, MINN.

TOW ROPE REEL
Skee Reel offers water skiing enthusiasts a convenient and easy way to reel and store ski ropes. Reel consists of a high impact plastic drum with crank handle mounted to a rubber-handled, all-aluminum reel rod. Eliminates tangled ski ropes.

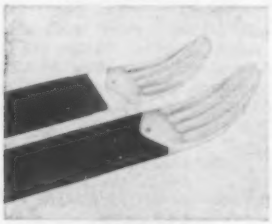
BILLY BOY PRODUCTS, INC.
44 E. CHICAGO ST.
QUINCY, MICH.

SKI BELT
Body strap goes completely through the belt between two casings and must go through a tab guide before it can be fastened to the D rings which are on the side for proper adjustment. Features tough nylon reflector cloth in bright orange. Filled with unicellular plastic. Offered in 3 sizes. Billy Boy offers a complete line of life preservers and vest.

CAMPBELL MFG. CO., INC.
1345 PLOWMAN AVE.
DALLAS 3, TEXAS

CAMPBELL SKI BELTS
Belts are made of white flotation material, polyethylene foam, and reinforced with heavy-duty web strapping all around, with a "D" ring closure. Available in 4 sizes. Prices: large, medium and small, $2.75; extra large, $2.95.

DRAKE PRODUCTS
GREENVILLE, MICH.



SKI-TIP
Made of Polyethylene, Drake Ski-Tips together with Drake Water Ski Bindings means anyone can assemble an outstanding pair of water skis. Do-it-yourself Ski-Tips sell for $3.95 and one pair of Drake vinyl, nylon water ski binding, $6.98, or both for $9.95.

SKI BINDINGS ADAPTER
The Ski-zer, made of flexible vinyl, makes ski bindings instantly adaptable to any size foot. The Ski-zer slips easily into any ski binding and allows the entire family to water ski with one size ski. Available in three colors, they sell for $2.95 a pair.

FUN-CRAFT, INC.
WINAMAC, IND.

FUN-CRAFT WATER SKIS
Fun-Craft, Inc. has one of the world's most complete water ski factories offering a full line of skis and ski accessories.

GENTEX CORPORATION
450 SEVENTH AVE.
NEW YORK, N.Y.

SKEEBELT
Lightweight, non-absorbent foam construction gives permanent buoyancy without bulk. Stitching is eliminated by fitting vat-dyed webbing through welded slots. Price, $9.95.

GULL SKI CO.
KALAMAZOO, MICH.

GULL WATER SKIS
Line of skis features 12 different models, including a size for children, 4 other styles for adults, and 7 special designs for exhibition and trick skiing, including shoe skis, spinners, jumpers and toothpick slalom.

K-D ENGINEERING
2310 S. 7TH
LINCOLN, NEB.

SKI-REEL
The Ski-Reel eliminates troublesome job of handling tow ropes and operates from 6 or 12 volt motor and holds up to 75′ of rope. Can be mounted in any desired location with two bolts. Aluminum construction. Price, $44.90, not including tow rope and battery.

KAINER & CO.
743 LEXINGTON ST.
CHICAGO 7, ILL.

SKI-VIEW MIRROR
2½″ x 11¼″ mirror is for mounting on plastic, aluminum or wood windshields, is enclosed in a brass epoxy finished back and can be focused in all directions. Price, $5.95.

ADOLPH KIEFER & CO.
2055 RAILROAD AVE.
GLENVIEW, ILL.

TOW LINES

Tow lines are available in ¼" diameter yellow polyethylene, 75' long and with either single or double hardware handles, and also in ¼" diameter water-treated Manila line, 75', with single, double or combined handles. Plastic floats are included with each line.

SURE LOK

Construction is of heavy aluminum with serrated rear locking tongue. Single rubber covered knurl is used for tightening. Features correct foot positioning and positive fastening. Comfortable moulded rubber heels and toes. Adult size is priced at $9.75.

●

KIMBALL MFG. CORP.
HARBOR & MILL STS.
SAN RAFAEL, CALIF.

FIBERGLASS WATER SKIS

A complete line of banana, standard and slalom skis are offered made of light, sturdy fiberglass.

●

LAUDERBACK INDUSTRIES
7533 NE KILLINGSWORTH
PORTLAND 13, ORE.

SEA SKI WATER SKIS

Line includes Caravelle skis, available in parts, Slalom and a combination pair. Skis are of mahogany with contrasting ash vertical laminations with fiberglass covering. Price; Slalom, $29.95.

●

M & B SALES CO.
2615 LOVE FIELD DR.
DALLAS, TEX.

NYLON SKI TOW HARNESS

The ski tow harness features movable tie-in radius ring, length adjuster, and nylon backing. Price, $6.95.

●

MAGIC TOOL, INC.
991 WILLIAMS ST.,
SAN LEANDRO, CALIF.

BOAT AND SKI FINS

Aluminum construction. Three sizes available. Priced from $1.48 to $3.98.

●

PARTEE BOAT MFG. CO.
104 COLES FERRY PIKE
LEBANON, TENN.

WATER SKIS

Skis are made of solid African mahogany, complete with laminated tips, clear natural finish and deluxe harness. Skis available include all-purpose, banana, deluxe banana, special banana or trick skis, short outboard or children's skis, and slalom banana, each $15; ski blanks bent and varnished, $15 per pair; deluxe harness, $9.75 per set.

●

PURITAN CORDAGE MILLS
MARINE DIVISION
124 CABEL ST.
LOUISVILLE 6, KY.

TOW ROPES

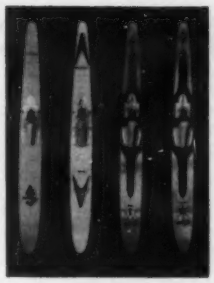
Every item in the line of ropes necessary for safe and enjoyable water skiing is offered by Puritan Cordage.

●

THOMPSON SKI CO.
CRIVITZ, WIS.

WATER SKI LINE

27 models in 3 popular price



ranges are offered. A complete line of water skiing accessories are available including exclusive Saf-T-Tow rope.

●

SAN ANGELO DIE CASTING & MANUFACTURING CO., INC.
BOX 984, SAN ANGELO, TEX.

SKI ROPE REEL

The automatic Ski Rope Reel keeps rope stored neatly and safely out of the way and ready for use at all times. Spring tension of reel retrieves tow rope with such ease the boat operator can remain seated at the controls. Automatic Ski Rope Reel is made to accommodate up to 75' of any type tow rope of ¼" diameter or less. Price, $29.95. A one-step ladder is also offered, making boarding easy, priced at $5.95.

●

STERLING PRODUCTS CO., INC.
180 E. 6TH ST.
ST. PAUL 1, MINN.

POLYFOAM SKI BELTS

Belts are covered with tough denim fabric, and have aircraft type safety buckle, which is adjustable and rustproof. Available in three sizes, 32", 38" and 48". Price: $4.95.

STERLING WATER SKIS

Line includes all-solid ash skis in 11 basic models, including regular types, banana pairs, banana slaloms, regular slaloms, with junior size bindings available on all models. Company also offers ski tow rope of braided polyethylene.

ACCESSORIES

Line includes map case, tool bag, polyethylene foam boat fenders and plastic accessory cases and ski cases.

●

WHITE BEAR WATER SKI CO.
5315 BALD EAGLE BLVD. W.
WHITE BEAR LAKE 10, MINN.

WHITE BEAR WATER SKIS

Full line of over twenty types of skis. Model LBC is 71" long, of ash lumber construction with maple and mahogany striping, aluminum and neoprene rubber harness. For use behind outboard motors from 22 HP and up. Weight, 15 lbs.; price, $34.95. Line also includes 18" laminated shoe skis from $14.95, as well as other regular and banana skis, accessories, aquaplanes, and toboggans.

SKIN DIVING EQUIPMENT

●

BURGESS BATTERY CO.
FREEPORT, ILL.

SKIN DIVING AQUA-LITE

Lantern has sealed beam spotlight of 40,000 candlepower and double-powered battery power pack. Features include unified battery-and-case construction pressurizer to enable it to function to depths of 250', double-chrome on all-metal parts in light head, and leakproof battery power pack. Price, $13.95; replacement batteries, $2.75.

●

DACOR CORP.
P.O. BOX 551
EVANSTON, ILL.

DACOR DIVING LUNG

Tanks are of steel construction, and available with either standard or reserve valve. Features of equipment offered includes double diaphragm, two-stage regulator, "Dial-A-Breath" for type of breathing preferred by diver, with regulator for "balanced breathing, with same effort required on both inhale and exhale. Prices: Double tank lung, $224.50; lung with reserve valve, $159.50, and lung with standard valve, $144.50. Also available are complete regulators, single- and double-reserve valves, pressure gauges and tank stands.

●

SAMPSON-HALL CO.
10561 SUNSET BLVD.
LOS ANGELES 24, CALIF.

CAMERA HOUSING

The Professional Underwater Motion Picture Camera Housing for 35mm or 16mm is made of high-grade aluminum alloy, heat treated and anodized. All control seals are run on precision chrome surfaces in removable retainers. Salt water corrosive resistant. Exterior fingertip starter switch, F-stop and focus controls. Price available on request. Also available is an underwater television camera housing.

●

SO-LO MARX RUBBER CO.
LOVELAND, OHIO

SKOOBA-TOTES

Pure rubber suit can be worn over street clothes or long underwear and insures warmth to the water skier on the coldest days. Also designed to give professional skin divers warmth and complete waterproof protection. Price of suit $19.95; matching hood, $3.00.

TOOLS FOR BOATMEN

●

MARMAN DIV. AEROQUIP CORP.
11214 EXPOSITION BLVD.
LOS ANGELES 64, CALIF.

PIPE REPAIR CLAMP

The Heavy Duty Patchmaster pipe repair clamp is available in sizes from ½" through 8" and in widths of 3, 6, 9 and 12". The new lug design allows the pipe repair clamp to conform to the contour of the pipe under high torque without biting into the pipe. Patchmaster easily and quickly repairs pipe leaks, either emergency or permanent.

●

BERGEN WIRE ROPE CO.
CREGG ST., LODI, N. J.

BERGEN CUT'N SWAGE KIT

This tool offers an inexpensive method for handling steel cable, which requires only a hammer for easy cutting of steel cable and assembly of fittings. The kit consists of a Bercut cutting tool for 1/16", 3/32" or ⅛" steel cable and the Berloc swaging tool with dies in three sizes to fit the same cable dimensions. Compression sleeve fittings are used, so the swaged assembly has the full breaking strength of the cable.

●

THE BERYLLIUM CORP.
READING, PA.

TOOL KITS

Variety of tool kits of beryllium copper are available. Tools are rust-proof, spark-resistant and non-magnetic. Prices: from $9.30 to $38.35 per set. Also sold individually.

●

BLACK & DECKER MFG. CO.
TOWSON 4, MD.

REVERSIBLE ⅜" SCRU-DRILL

Double-purpose tool combines properties of drill and power

screwdriver in a single, hand-held unit. As a drill the tool can be used with all kinds of bits, including twist drills up to ⅜", wood augers to ¾", masonry bits to ½" and hole saws from ⅝" to 1¾". When used as screwdriver, bit idles for finding screwhead slot, then forward pressure engages mechanism and drives the screw. Reversing switch permits quick removal of screws or nuts in dissembly operations.

●

CASTLE HILL PRODUCTS, INC.
8 NEWPORT AVE.
NEWPORT, R.I.

STAINLESS STEEL TOOLS

Line of tools offered includes screwdrivers, ice picks, slip-joint pliers and can openers, with hardened and tempered blades, polished extruded plastic handles, pliers with precision broached teeth and wide knurled grip.

●

CHARLES MACHINE CO.
P. O. BOX 63
SPRINGFIELD, N. J.

CONTOUR SCRIBER

Multiple use tool marks circles or scrolls from 1" to 25" diameter and follows irregular and uneven lines and surfaces. Price: $1.30.

●

CYCLEWELD CHEMICAL PROD.
DIV. OF CHRYSLER CORP.
5437 W. JEFFERSON
TRENTON, MICH.

LIQUID IRON

Cycleweld Liquid Iron is a putty-like synthetic plastic that sets up into a substance like iron a few hours after it is mixed with a clear liquid hardener. After Liquid Iron has hardened it can be ground, sanded, shaped, filed or drilled in the same manner as iron. Liquid Iron retains strength under heat up to 300 degrees and at cold temperatures down to 0 degrees. Priced about $1.25 for small size or $3.00 per lb. Available in larger containers.

●

FLEXAN CORP.
3949 N. NORMANDY AVE.
CHICAGO 34, ILL.

FLEXAN ROTARY SURFACE SANDER

Sanding unit is for use with any ¼" portable electric drill and has rubber universal joint to allow drill to be used at almost any angle to work surface. Price, $2.98, complete. Company also offers pressure-point sanding and polishing kit, and sanding discs and lambswool bonnets.

●

W. L. FULLER
1165 WARWICK AVE.
WARWICK, R.I.

PLUG CUTTERS

Plug cutters, countersinks, counterbores and drills.

●

GARDNER-DENVER CO.
QUINCY, ILL.

AIR TOOLS

Air tools designed for drilling or assembly operations in close quarters include angle drills, nut setters and screwdrivers, as well as in-line models. Tools range in weight from 1½ to 12 lbs., feature sturdy construction, ball bearings, Zerol bevel gears, splined drives. Available in many sizes with speeds ranging from 225 rpm to 20,000 rpm.

●

C. SHERMAN JOHNSON CO.
FERN LANE
MIDDLE HADDAM, CONN.

¼ HANDY LOCK TURNBUCKLE

#18-8 self safetying turnbuckle, with integral handle, of stainless steel fabrication, designed for use with wire sizes 3/32", ⅛", and 5/32". Weight 5¾ oz. May be ordered with toggle & toggle or toggle & swaged end. Price, $9.95.

●

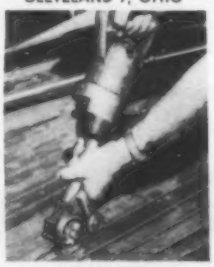
MABSCO PRODUCTS
BOX 66, UTOPIA STATION
FLUSHING 66, N. Y.

CAULKING TOOL

Two reefing edges fit seams of varying widths and depth regulator controlled by a locking nut prevents deep cutting into seams and damaging caulking cotton. Handle shaped to give comfortable grip.

●

MARTINDALE ELECTRIC CO.
BOX 617, EDGEWATER BRANCH
CLEVELAND 7, OHIO



SEAM-ROUTER

Martindale Seam Router will remove the old caulking, while high speed steel flanking saws mounted on both sides of the chipper prepare the wood for new material. Driven by a ⅓ HP Universal a.c. or d.c. motor. Price with wrenches and 5 guide wheels, $120.

●

MILLER FALLS CO.
GREENFIELD, MASS.

DRIVER-DRILL

The Driver-Drill is a two-way power tool which combines features of a high torque positive drive screwdriver and rugged ⅜" drill in the same unit. A full line of assortments and accessories, including a handy kit of bits, finders, etc., is available.

●

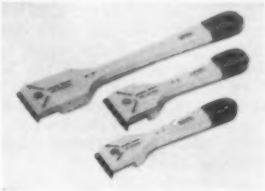
MITERITE, INC.
CAMPBELL, CALIF.

MITERITE CALCULATOR

Automatically calculates correct angle for complex construction work. Accurate to ¼ degree of arc, tool makes cutting of compound angle a simple operation with table or radial arm power saw. Price: $1.

●

R. MURPHY CO.
AYER, MASS.



BOAT SCRAPERS

The Temperite brand boat scrapers feature angled points for scraping in corners and other tight spots, two edged heavy steel blade and are finished in bright yellow and green.

●

PORTER-CABLE MACHINE CO.
700 MARCELLUS ST.
SYRACUSE 4, N.Y.

ELECTRIC PAINT REMOVER

Portable electric tool can be used for paint removal, floor edging, boat and deck sanding and concrete surfacing, and is effective on wood, plastic and composition materials. Tool has tungsten carbide discs and is powered by heavy duty 3.5 amp Universal motor. Features include sealed precision ball bearings and helical gear drive. Price, $69.95.

MODEL 165 ABRASIVE-BELT SANDER

Portable abrasive-belt sander has Universal motor with self-lubricating ball bearings and can sand 600 surface-feet-per-minute. Features include interchangeable belts for coarse to fine sanding, and wood-working and metal-working abrasives. Drive mechanism requires no lubrication.

MODEL 145 FINISHING SANDER

Finishing sander uses orbital motion and features Universal motor; covers large areas for coarse, medium and fine finishing and can be used close to corners and in other cramped spaces. Housing is of die-cast, polished aluminum, with control switch on top of the handle.

●

SULLIVAN-BECKER CO.
6705 - 14TH AVE.
KENOSHA, WIS.

PORTABLE SPRAY GUN

A new improved model of the Becker carbon dioxide powered spray gun provides the answer for boat painting and maintenance. It needs no compressor, hose or electrical connections. The removable nozzle can be adjusted to spray anything from paint to insecticides, from a fine mist to a stream. The gun is made with cast aluminum head with brass and stainless steel inserts and the container is made of heavy gauge steel. Price, $24.95.

●

WELLER ELECTRIC CORP.
601 STONE'S CROSSING RD.
EASTON, PA.

WELLER POWER SANDER MODEL 700

Sander and polisher has reciprocating type motor giving 14,400 strokes per minute, and never needs lubricating. Features include push-button control, low design for easier use in small spaces, rubber insulation, 8' cord, positive straight-line action and 25 sq. inch sanding area. Price: $16.95 with 6 sheets of assorted sandpaper.

●

WENDELL MFG. CO.
4234 N. LINCOLN AVE.
CHICAGO 18, ILL.

STRIPING TOOL

Easy-to-use Master Paint Striper draws straight, curved, circular or parallel lines in any color on any smooth boat surface. Works like a fountain pen and stripes with paints or lacquers. Price, $1.25.

●

WETZLER CLAMP CO., INC.
43-15 11th ST.
LONG ISLAND CITY 1, N. Y.

QUICK ACTION CLAMPS

Move swiftly by a rapid engatement of the stock to be held. One jaw remains stationary while the other jaw is zippered to position; a turn or two of the handle and the article is tightly held. Furnished in jaw depths of 2" to 12"; bar lengths from 4" to 84". Also available: cross clamps, single and double spidel cross clamps, and handscrews. Catalogue available upon request.

MISCELLANEOUS

●

ACE BANNER & FLAG CO.
224 HADDON RD.
WOODMERE, L. I., N. Y.

MARINE FLAGS

A quarter million flags, banners, pennants and accessories are in stock. If not in stock, they will quickly fill your request.

●

ALLADIN LABORATORIES, INC.
620 S. EIGHTH ST.
MINNEAPOLIS 4, MINN.

BAR BUOY DRINK HOLDERS

Holders are equipped with two mounting clips for use in different locations. Available are two models: No. DH295, chrome-plated steel, and DH-495, chrome-plated brass. Prices: $2.95 and $4.95.

●

B. ALTMAN & CO.
FIFTH AVE.
NEW YORK 16, N. Y.

CLOTHING

B. Altman & Co. has specialized for several years in clothing and accessories for the boating family. They offer the newest and smartest sportswear and equipment designed with the needs of the casual sailor and the taste of the dyed-in-the-wool cruiser in mind.

●

ACTION UNIFORM CO.
20 EAST 30th ST.
NEW YORK 16, N. Y.

BOAT CLOTHING

Seaworthy clothing for women, men and children are offered in durable materials. Regulation yachting uniforms and marine flags are also available. All types of deck shoes.

●

AMERICAN HARD RUBBER CO.
200 E. 42 ST., NEW YORK 17, N. Y.

ACE WASHDOWN HOSE

Reinforced with nylon tirecord. Resistant to sun, oil and bilge grease. Vinyl construction, folds for storage. Price, 50 ft. length, $6.98.

●

BERNARD ENGRAVING CO.
NORTH 12TH & SHERMAN
TOLEDO, OHIO

BOAT LETTERS

Newest in all weather plastic boat identification letter and numeral line is Hi-Style Script which comes in gold face with white bevel and is available in both capital and lower case letters in 7" and 3½". Companion Gothic 3" letters are available in gold face with white bevel to match the new Hi-Style Script at 25 cents each. These letters come complete with brass fasteners and retail for $1.00 each in 7" size and 50 cents each in 3½" size. Bernard Engraving offers a complete line of boating numerals to fit every need of boaters.

●

JAMES BLISS & CO.
342 ATLANTIC AVE.,
BOSTON 10, MASS.

ROOSTER TAIL

Stainless steel and aluminum accessory that mounts on bottom rear of boat and produces high water spray into the air. Spray height and angle adjusted from "full" to "off" by thumbscrew control. Price, $9.95 pair.

●

CAMPBELL MFG. CO., INC.
1345 PLOWMAN AVE.,
DALLAS 3, TEXAS

LADIES' BEACH-N-BOAT BAG

For outings and overnight use. Easy to clean, moisture and wear resistant. Red with black and white trim. Price, $3.95 plus 10% fed. tax.

●

"KLEETS" DIVISION
CAMBRIDGE RUBBER CO.
CAMBRIDGE, MASS.

"KLEETS" FOOTWEAR

Ship and shore shoes are available for men, women and children, made of elk tanned leather or nylon-sailcloth with DecKork soles and nylon stitching throughout. Uppers are water repellent. Prices, men's leather shoes, $9.95; family sizes, of nylon-sailcloth, $6.95.

●

CAPTAIN COD PRODUCTS
BOX 256, WINCHESTER, MASS.

SHE CAPTAINS CARRY-ALL

15" high and 15" wide. Outside Piggy-Back pockets measure 7" x 8". The woman boater will

find this handle carry-all the ideal item for stowing all her belongings. 3 initials stenciled free. Price, $5.50.

●

NAUTICAL SUPPLIES DIV.
COMMODORE UNIFORM CO., INC.
349 BROADWAY
NEW YORK 13, N.Y.

NO-SPILL KRAMER KUP

One of the handiest, practically spill proof cups to appear is a new one from Commodore. All plastic and unbreakable, the cup's advantage lies in its patented design. ½" below the lip of the cup there is a horizontal slit extending about half way around the cup and a flat, semi-circular removable piece or lid is inserted in the slit. A degree of insulation helps keep hot liquids hot and cold liquids cold. Price for set of 6, $3.95. For 50 cents, you can obtain Commodore's catalog featuring their line of gifts and apparel for boatmen.

●

CONTEMPORARY CREATIONS
P.O. BOX 546
PALM BEACH, FLA.

SEA-MARSHAL YACHTING CAPS

Caps are individually designed and embroidered. Prices, from $15 through $55. Also available are Nauticaps, silk-screened caps. Prices, $8 to $10.

●

CONVERSE RUBBER CO.
MALDEN 48, MASS.

SKIDGRIP

Longer wearing, self-cleaning, molded blue colored grip sole on a circular vamp oxford model boating shoe is offered in men's sizes 4 to 14, women 4 to 10 for about $7.95.

●

CROW'S NEST
16 E. 40TH ST., NEW YORK 16, N. Y.

MARINE ACCESSORIES

Line includes variety of aids for boating use such as navigation equipment, cabin equipment, charts and government publications and many other accessories. Catalog available.

●

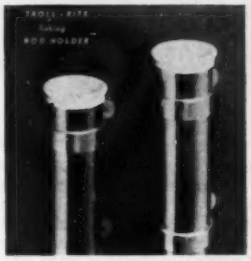
DEFENDER TEXTILE CORP.
380 BROADWAY
NEW YORK 13, N. Y.

FOUL WEATHER STORM SUITS

Suits are made of woven rubberized nylon cloth, and are offered in two-piece style with drawstrings at waist and hood. Features include elastic sleeve, brass-zippered neck closure and gusset neck piece. Small, medium, large and extra large suits. Price, $8.95. Also available are rubberized cotton suit, imported from Japan, $6.95, and extra heavy duty vulcanized cotton suit, $10.95.

●

DESIGN PRODUCTS, INC.
1177 CENTRAL AVE.
SARASOTA, FLA.



FISHING ROD HOLDERS

Troll-Rite fishing rod holders are constructed of anodized marine alloy aluminum and designed to fit all deep water rod handles. Price: $5.95 per pair complete. Design Products offers a number of handy items for fisherman and boaters.

●

MARINE PRODUCTS DIV.
DETROIT STAMPING CO.
340 MIDLAND AVE.
DETROIT 3, MICH.

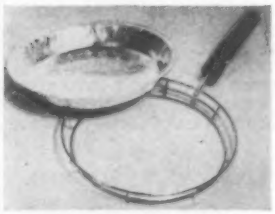
ASH TRAP

Designed especially for marine use. Converts empty cans into

disposable ash traps. Unit snaps securely onto almost any round can by means of a multi-purpose retaining lip. Spring type retainer on outer circumference holds pipes, cigars or cigarettes, protected from wind. Available in two color combinations: anodized-gold with black retainer, or black with polished brass retainer. Price: $1.95; two for $3.75.

●

DISPOSA-WARE CORP.
811 N. 19th ST.
PHILADELPHIA 30, PA.



DOB FRYING PAN

Throw-away frying pan fits inside steel and chrome holder, and will hold up to 10 lbs. Holder is 10" x 16", disposable pan is 10" x 1½" deep. Prices: holder, $3.50 with 8 refills; Extra refills, $1.80 for 20.

●

DYER SPECIALTY CO.
P. O. BOX 1054
WHITTIER, CALIF.

E-Z-PLY

LETTERS AND NUMBERS

3" numbers and letters are made of Scotchlite and Scotchcal and comply with U. S. Coast Guard regulations. Material is pressed into position to apply. Scotchlite numbers reflect at night, Scotchcal numbers do not reflect at night. Prices: Scotchlite, 20¢ each; Scotchcal 10¢ each.

●

EMHART MFG. CO.
MAXIM DIVISION
HARTFORD 1, CONN.

SALT WATER EVAPORATOR

Salt water evaporator for production of fresh water is designed specifically for use on yachts. Available in two capacities, a 250 gallon-per-day and a 500 gpd, each will have two options, a fiberglass model and a deluxe Monel unit. Evaporators are operated by waste heat from the engine jacket of the diesel, and they are push-button-operated.

●

ENGINE ACCESSORIES MFG. CO.
5801 E. BEVERLY BLVD.
LOS ANGELES 22, CALIF.

GOLD 'N CHROME PLASTIC METAL

Beautify and protect your boat with glamorous new Gold 'N Chrome, which looks like shining chrome or gold-plated metal, yet can be easily cut to pattern with ordinary scissors. Made with DuPont Mylar with special adhesive backing, it immediately sticks to metal, wood, leather, glass and other material. The rustproof material will not stain, scratch or warp and is unaffected by water, gas, oil or grease.

●

ENTERPRISE METAL PRODUCTS INC.
405 2nd AVE.
NEW HYDE PARK, N. Y.

MARINE LAMPS

Line of lamps include table and wall models, and features genuine replicas of marine items made of solid cast brass. The Buccaneer model is furnished with Fersnel lens, and is priced at $19.50 in polished brass, and $22.50 chrome-plated.

●

EVANS INDUSTRIES
MARINE DIVISION
1276 E. COLORADO
PASADENA, CALIF.

FORMULA d'ELEGANCE CLEAR PLASTIC CLEANER

Plexiglass cleaner is guaranteed not to scratch and will brighten and restore clarity to clear acrylics such as windshields, side windows. Can be applied with any soft cloth. Price: $1.85.

●

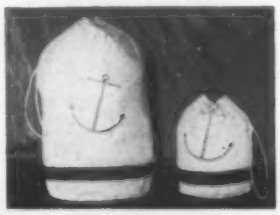
EVERPURE, INC.
2627 W. 19TH ST.
CHICAGO 8, ILL.

WATER PURIFIER KIT

The Everpure Yachtsman Water Purifier kit consists of Everpure Water Purifier, 100 Taclor chlorine tablets and a little chlorine tester. It eliminates unsafe water from questionable watering sources and ends handling and storing of bulky water bottles and jugs. Water is always dependable and pure.

●

EUREKA TENT AND AWNING CO., INC.
35-37 STATE ST.
BINGHAMTON, N.Y.



BOAT BAGS

Bags are made of 10 oz. four ply sailcloth, and available in two sizes, 16" high and 37" circumference, and 30" high and 48" circumference. Prices: Junior size, $2.50; Jumbo size, $3.75.

●

FLORIDA NAIL & WIRE CORP.
1106 MAPLE ST., CLEARWATER, FLA.

GATOR-GRIP NAIL

Crowned head, countersink aluminum nails for rub rails, trim, and all boat uses. Gator-Grip nails feature double grips or barbs for greater holding quality.

●

FLORIDA PLASTICS
420 - 10th AVE.
PALMETTO, FLA.

MARINE LETTERS

Letters and numbers are made of tenite butyrate processed by injection molding. Styles include 3" and 6" script letters and 3" marine letters. Prices: 3" script, 25¢ each; 6" script, 75¢ each, and marine, 20¢ each.

●

FOAMLAB CO.
22 W. INTERSTATE RD.
ADDISON, ILL.

CONTOUR PILLOW

A versatile multi-purpose pillow made of durable foam plastic. Zippered corduroy cover in choice of colors. Scientifically designed for ultimate in comfort.

●

FREEZER CLOTHING SALES CO.
2446 REEDIE DRIVE
SILVER SPRING, MD.

FREEZER WEAR

Foam-insulated garments protect to −30° weather, with line including coveralls, suits, caps, shop coats, merchandise blankets, aprons, jackets, trousers, shoes, mittens and gloves.

●

THE FULTON SUPPLY CO., INC.
23 FULTON ST.
NEW YORK 38, N. Y.

OILSKINS

Lightweight, polyvinyl oilskins, standup, corduroy collar on coat. Ventilated armpits, made of long staple cotton, polyvinyl covered and impregnated inside. Color, high visibility yellow. Prices, overalls $11; jacket $11; sou'wester $3.

●

FUMOL CORP.
VAN DAM ST. & BORDEN AVE.
LONG ISLAND CITY 1, N.Y.

"LOVELY-ON" SILICONE PROTECTIVE SPRAY

Spray air-cures itself in 4 to 6 hours after application, and may be used on any fabric, canvas and suede to prevent stains, retard soil and repel water. Can also be used to remove oil and grease stains. Price, $2.98.

●

B. F. GOODRICH FOOTWEAR & FLOORING CO.
WATERTOWN, MASS.

YACHT SHOE

Features anti-skid sole for wet surfaces, "P-F" wedge, and ventilation. Priced at about $9.00.

●

GENERAL TIRE & RUBBER CO.
TEXTILEATHER DIVISION
607 MADISON AVE.
TOLEDO 3, OHIO

NAUTOFLEX

Supported vinyl marine fabric is available in variety of patterns and colors and can be used to cover decking and flooring, cabin interiors and tops and ship sides, upholstery, and as spray curtains, flying bridge covers and decorative inserts. Decking and flooring fabrics will not oxidize, become brittle or crack, check or blister.

●

HAWKEYE INDUSTRIES
98 SOUTH MAIN ST.
LONGMONT, COLO.

BOAT DISPLAY DOLLY

All welded steel frame has non-marking casters. Self-adjusting hardwood chocks fit all boats and are covered with polyester plastic foam to protect boat. Other models available.

●

HIS LORDSHIP PRODUCTS CO.
245 SEVENTH AVE.
NEW YORK 1, N. Y.

NAUTICAL JEWELRY

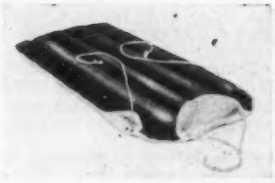
Creators of fine three-dimensional jewelry which are miniature reproductions distinguished by their authenticity. Last addition to line are seadog cuff links available in sterling silver or 14K gold.

●

HODGMAN RUBBER CO.
TRIPP STREET
FRAMINGHAM, MASS.

DRAG-'N-FLY TOW FLOTE

Using I-Beam construction with reinforcement features for the stress of starts and



pulls, the Hodgman Tow Flote can be used in a reclining, kneeling, sitting or standing position. Two models are available, priced at $19.95 and $25.

●

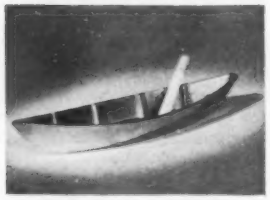
HOWE & BAINBRIDGE CO., INC.
220 COMMERCIAL ST.
BOSTON 13, MASS.

SAIL BATTENS

Sail battens in standard sizes, 1" to 2" widths and lengths from 12" to 48", are manufactured by Bete Mfg. Co. and sold by Howe & Bainbridge Co. These are all specially tapered battens made from white ash and treated for mildew proofing.

●

ED LEMKIN & CO.
34 HUTCHINSON COURT
GREAT NECK, N.Y.



DORY ASH TRAY

The 8½" Dory Ash Tray is a highly polished cast brass, authentic replica of Old New England fishing dory and comes with name of boat or proper name engraved on bow. Heavy construction allows use as paperweight. Price, $4.95.

●

MARK CROSS CO.
707 FIFTH AVE.
NEW YORK 22, N. Y.

CANNON PAPERWEIGHT

Cannon is authentic model of cannon on the USS Constitution. Brass trimmed steel cannon is 6¾" long and mounted on slate base for use as paperweight or ornament. Price, $20.

●

NEWKOTE CORP.
VALLEY STREAM, N.Y.

PLASTIC-ON-METAL CLIPS

Designed with the boat owner in mind, the new Newkote clips and coat and hat hooks combine good looks with practical durability. The fused on metal finish of colored plastic is impervious to acids, alcohol

and sea water. Finish will not chip, mar or peel. Available in pastel colors.

●

PIEL CRAFTSMEN
307 HIGH ST.
NEWBURYPORT, MASS.

CLIPPER SHIP RED JACKET MODEL

Handmade model of 1853 Clipper Ship is 21" x 14", with high-Black and antiqued copper hull, painted spars and mahogany finish base. Price: $38. Other ship models are available.

●

PLASTI-GOLD SPECIALTY CO.
3011 NEWPORT BLVD.
NEWPORT BEACH, CALIF.

PLASTI-GOLD 3-D BOAT NUMBERS AND LETTERS

Numbers and letters are made of Scotchcal plastic, are 3½" high and made to USCG and Federal specifications. They are applied by peeling off the back and pressing into place, and are waterproof and resistant to heat, chemicals, oil, grease, and acid. Prices, 25¢ each.

●

POLISHES IMPORTED LTD.
156 W. BOSTON POST RD.
MAMARONECK, N. Y.

PI METALPOLISH

Polishes and protects all metals, including aluminum, chromium, nickel, steel, copper, pewter, silver and gold. Polish is non-inflammable, non-toxic and safe on hands. Price: $1 for 4 oz. tube.

●

RAMY CO.
P.O. BOX 3551
CLEVELAND HEIGHTS 18, OHIO

PERSONALIZED JACKETS

Cotton and nylon jackets are available with designs containing owner's name, boat's name and yacht club pennants. Prices from $8.95 to $10.95, in sizes for adults and children.

●

RUBBERMAID INC.
WOOSTER, OHIO

NO-TIP LITTER BASKET

9¼" x 5½" x 10" polyethylene basket has weighted base to prevent tipping, and built-in bracket for mounting on gunwales, seat backs, galleys and cockpits. Cannot rust or

scratch. Price: $3.95. Company also offers polyethylene boat bucket with double spouts, $2.95, and galley pail with stainless steel handle, $5.95.

●

RANDOLPH SHOE CO., INC.
32 SOUTH MAIN ST.
RANDOLPH, MASS.

RANDY BOATSHU

Boat shoe has perimeter traction action to grip the deck, and is available in various colors, styles and sizes for men, women and children. Price: $6.95.

●

SEA CHEST
1620 MOUNT ROYAL AVE.
BALTIMORE 17, MD.

NAUTICAL GIFTS

Sea Chest of Baltimore offers a complete line of nautical gifts ranging from nautical jewelry to electronic equipment. Catalog is available.

●

SOUND YACHT SUPPLY
72 DANBURY RD.
WILTON, CONN.

MARINE ACCESSORIES

Line of equipment available includes Hoover 12 volt vacuum cleaner; plastic, rustproof clothes hangers; Kic-Key for loosening deck plates with holes not over 3" apart; 17½" owl replica for frightening seagulls; "South Sea" insulated tumblers and pitchers; magnetic soap gripper; Danish knife and marlinspike kit, and a hardwood serving platter.

●

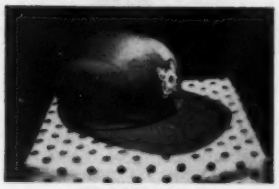
SPERRY TOP-SIDER
NAUGATUCK, CONN.

"TOP-SIDER" FOOTWEAR

Line of marine footwear includes wedge shoe for women, and variety of shoe styles with anti-slip soles for men, women and children. Other products offered are foul weather boots, foul weather and racing suits, and foul weather suits for juniors.

●

SUNBEATER MFG. CO.
415 S. LAMAR ST.
DALLAS 2, TEXAS



HEADWEAR

"Paris Sunbeater" headwear in assorted styles for various boating and land uses.

●

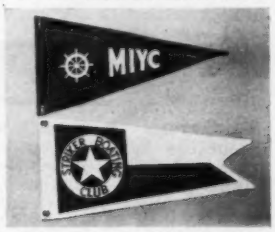
SURFACE COATING ENGINEERS, INC.
272 DOREMUS AVE.
NEWARK 5, N. J.

DECKING METHOD

System uses fiberglass screening cut to fit, then applied over old surface which was previously given one coat of Vinylon liquid plastic marine coating, then screening is given one of two coats of Vinylon. Result is said to be skid-proof, leak-proof and glare-free decking.

●

N. A. TAYLOR CO., INC.
14 W. 9th AVE., GLOVERSVILLE, N. Y.



FLAGS AND PENNANTS

Nylon flags are "perma-print" dyed for weather-fastness, available in 12" x 18" size. Cotton pennants with novelty and precise nautical meaning, are printed on sail cloth, available in 10" x 16" size. Prices, flags, $2.50 and pennants, $1.15.

●

TRANSFER MONOGRAM CO., INC.
184 W. WASHINGTON ST.
CHICAGO 2, ILL.

LETTERS AND NUMBERS

Letters and numbers are available as decals, or of vynal and mylar pressure-sensitive materials, both types 3" high. Prices, decals, 10¢ each; vynal and mylar, 20¢ each.

●

TRUESDALE CO.
BOSTON, MASS.

TRU-CLEAN

Bilge cleaner emulsifies oil, grease and gasoline, removing odors as water is pumped overboard. Company also manufactures. Tru-Heat, cooking fuel for boat stoves.

●

CHARLES ULMER, INC.
CITY ISLAND, N.Y.

ALLDRI

Foul weather gear is available for men or women, and is full cut of nylon with waterproof inner coating of rubber. In sizes XS, S, M and L. Price, $28.50.

●

UNITED STATES TREASURE MAPS
LITCHFIELD, CONN.

TREASURE MAPS

Maps available include chart covering area from Gloucester to Delaware Bay, showing 217 wrecks, and map covering Florida, Gulf of Mexico and the Caribbean, showing 175 wreck sites, with a key explaining the wrecks accompanying each map. Maps are 17" x 24". Price, $10 per map.

●

VICTORIA PRODUCTS
512 LUCAS AVE.
ST. LOUIS 1, MO.

PERSONALIZED BOATING CLUB GEAR

Line of articles for personalizing with boating club insignias or designs includes T-shirts, crewneck sweatshirts. Zip Byron collar sweatshirts, hooded sweatshirts, polo shirts, boating caps, polished cotton jackets and beach towels.

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VOILA
QUIAMBAUG COVE
STONINGTON, CONN.

FISHERMAN'S BLOUSE

Classic French Fisherman's Blouse comes in rust or light navy sailcloth. Available in small, medium, large and extra large, priced at $8.50. Long-sleeved T-shirt in blue or red stripes, $5.50.

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W. H. WATT
RADNOR, PENNA.

FLOAT-A-KEY

Floating key ring has Styron plastic float bubble, rustproof chain and waterproof identification tag. Price, $1.00.

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WINGS MANUFACTURING CO.
3-5 W. FIRST ST.
CLIFTON, N. J.

NON-RATTLE GLASS RACK

Glass rack is of transparent plexiglas and holds 6 glasses. Can be mounted on bulkhead or cabin ceiling. Price: $8.75. Company also offers models for holding single glasses, beer cans, and paper cups, as well as ring buoy or chart holder, boat hook or antenna holder, and rod rack, all of plexiglass.

PAINTS, SEALERS & FIBERGLASS PRODUCTS

Albichrome Products, 92 Brookline Ave., Boston 15, Mass. Chrome plated liquid for rusted and corroded chrome surfaces; provides its own mild chemical heat for plating the surface; non-toxic.

Alroy Process Corp., 333 Hudson St., New York 13, N. Y. Alroy-707 no-cotton caulking, Alroy-711 Epoxy marine coating in 8 colors plus clear; AR-703 Epoxy marine glue, plywood and fiberglass repair material, and plywood protector in four colors.

Andrew Brown Co., 5431 E. S. District, Los Angeles, Calif. Z-Spar's V-274 Polyurethane is a clear marine finish containing an Ultra-Violet shield which screens out damaging sun rays. Z-Spar Vinyl-Texture adheres to fiberglass, aluminum, plywood and wood surfaces. Z-Poxy is an outstanding epoxy formula for marine use.

Atlantic Powdered Metals, Inc., 38 Park Row, New York 38, N. Y. Manufacturers of Copper Powder and Ships Bottom Copper Powder.

Atlas Plastics, Inc., 681 Seneca St., Buffalo 10, N. Y. Fiberglass kits for boat covering, in polyester resin and Epoxy resins.

Baltimore Copper Paint Co., 501 Key Hwy., Baltimore 30, Md. Luders Epoxy Bronze Compound, a new racing bottom coating; Regatta Silicone Polish; Stock Boat Colors; Regatta Non-Skid Compound, and Production-Line finishes.

George A. Barker Engineering Co., 4717 Yuma St., N.W., Washington 16, D. C. "Storize" rust inhibitor for combustion area of gasoline engines during storage.

Borden Company, 350 Madison Ave., New York, N. Y. "Elmer's" waterproof glue for boatbuilding applications. Called "Cascophen" in industrial quantities.

Howard F. Borroto, 1245 Van Buren St., Hollywood, Fla. Kno-Rust anti-corrosive compound.

Briggs Bituminous Composition Co., 225 W. Cumberland St., Philadelphia 33, Pa. Farbertite is a super corrosion-resistant paint that can be applied on all surfaces such as pier structures, water tanks, ship bilges and exposed metal work.

Burlington Industries, Inc., 1430 Broadway, New York 18, N. Y. Fiberglass fabric woven by Hess Goldsmith for the boat field include woven roving, woven boat fabrics, narrow tapes, slit tapes and facilities to apply the appropriate finish are supplied. Competitive prices based on weight, width and quality.

Carpenter-Morton Co., 376 Third St., Everett, Mass. Carmote Master Marine Finishes including Yacht White in gloss, semi-gloss, eggshell-flat and undercoat; deck and hull paint, marine primers, anti-fouling bottom paint, general purpose varnish and spar varnish.

Coast Mfg. & Supply Co., Box 71, Livermore, Calif. Trevarno glass boat fabric is the ideal covering for boats. Toughness and long life of glass boat fabrics have long been tested and proved.

Clover Leaf Paint & Varnish Corp., 43-43 Vernon Blvd., Long Island City 1, N. Y. Nautilus line of marine finishes and Clover Leaf marine finishes are available in whites, gloss colors, and clear finishes and are resistant to salt and fresh water, sunlight, temperature changes, and engine fumes.

Colorizer Associates, 345 N. Western Ave., Chicago, Ill. Marine finishes available are hull and topside enamels, anti-fouling bottom paints, stain-fill, metal primer, undercoat, sealer and spar varnish.

M. L. Condon Co., Inc., 250 Ferris Ave., White Plains, N. Y. Protective plastic finishes for boats "Boatlife" and bottoms "Boat Vinylife."

Ed Conley Plastic Corp., 91st & Delaware, Tulsa 5, Oklahoma. Conley Weld C1 and C2 is an epoxy resin adhesive used for bonding metal, wood, glass, ceramic, masonry, rubber, fiberglass and other plastics.

Contemporary Creations, Box 546, Palm Beach, Fla. Filler-Adhesive-Sealer, a three-in-one, fast drying compound, is 42 per cent solid by volume and remains flexible over a wide temperature range. Price, $0.39. Contemporary Creations offers a complete list of items useful to the boatman, including yacht caps and rope whippings.

Cuprinol Division, Darworth, Inc., Simsbury, Conn. Cuprinol marine products, including Sav-it waterproofer and mildew-preventive, rope preservatives, Odor Free and Grease Off.

Dakoline Chemical Co., Inc., 357 Atlantic Ave., Brooklyn, N. Y. Aquatex Plastic Polish for use on soft plastics as well as glass, tile, porcelain and aluminum.

Dolphin Paint & Varnish Co., Toledo 3, O. Dolfinite spray enamels, lacquers and hull varnishes, cleaners, paint and varnish removers, enamels and lacquers for outboard motors and trailers to match original equipment colors.

Dow Corning Corp., Midland, Mich. 4X Compound is nonmelting, greaselike silicone water repellent and is also an excellent insulator of electricity. Price, $1.95 for 2 oz. tube; $2.95 for 12 oz. spray bomb.

Dunn-Rainey Co., 4461 W. Jefferson Ave., Detroit 9, Mich. "Admiral" marine seam compound.

E. I. DuPont de Nemours & Co., Wilmington, Del. "Ultra V Spar Varnish" for pleasure-craft woodwork. Contains an invisible ultra-violet light absorber that minimizes deterioration. Will not darken the wood. In wide range of colors.

EverShield Products, Inc., Joppa, Md. Pre-measured, do-it-yourself "Fiberglass Boat Kit," two types, with different fiberglass fabrics. One kit contains EverShield Super-Cloth for laminating all strip or plank surfaces; the other contains EverShield Perma-Kote for plywood laminations.

Federal Paint Co., 33 Rector St., New York 6, N. Y. Federal Fire Retardant Paints come in a selected group of colors for finishing or refinishing interior surfaces on all types of boats.

L. W. Ferdinand & Co., Inc. 2300 Washington St., Newton Lower Falls 62, Mass. Poly-seamseal, caulking compound, Ferdiseal, liquid marine sealer, Ferdico Canvas Cement, Ferdico XX Marine Glue for double planking, Ferdico Bedding Compound, Seamseal for deck and hull seams.

Fibre Glass-Evercoat Co., Inc., Kugler & Blue Ash Rd., Cincinnati 36, Ohio. "Scratch & Gouge Repair Kit" for fiberglass boats contain marine plastic putty, liquid plastic resin, hardener for putty and resin, fiberglass cloth tape and accessory items. Price, $2.95.

Fiske Bros. Refining Co., Lubriplate Div., 129 Lockwood St., Newark, N. J. Lubriplate Reel & Gun Oil in clear plastic vials supplies needed lubricant.

Flightex Fabrics Inc., 93 Worth St., New York 13, New split glass cloth tapes, available in widths up to 12", are intended for use where added structural strength is needed, and is finished for compatibility with all present molding resins. It allows maximum wetting-out with resins and insures a void-free laminate under closely controlled tolerances.

Fybrglas Industries, 3010 Montrose Ave., Chicago 18, Ill. Twinweld is an advanced flexible epoxy solder, engineered for permanent adhesive use for metal, wood, glass, ceramics, concrete, hard rubber, fiberglass, and many other materials.

Gillespie Varnish Co., Dey and Howell Sts., Jersey City, N. J. Bull Dog "Water Rinse" paint, varnish and lacquer remover.

Glass Plastics Corp., 1605 W. Elizabeth Ave., Linden, N. J. Blu-Sheen Fiberglas

cloth; Boat-Armor Super Resins, Titan-Tite Epoxy Resins; Titan-Tite Epoxy Paste; Fiberglas repair kits for Fiberglas, wood and aluminum boats.

Glidden Co., Cleveland, Ohio. Ripolin Yachting Finishes include hull, deck and topside enamels, stains and varnishes, anti-fouling bottom paints and many other boat finishes.

Guest Products Corp., 3504 30 St., Long Island City, N. Y. Guest Bilge Pak, a chemical placed in the bilge to retard dry rot. Guest Bilge Kleen, a safe powerful bilge cleaner. Guest Bristol Brite, a chrome and brass polish, Guest Rustopper, in powder form to retard oxidation. Guest Quik Heet, a liquid fuel for alcohol stoves.

Henderson & Johnson, Inc., Gloucester, Mass., distributors of Tarr & Wonson, Ltd., products. Gloucester Sea Jacket marine finishes, white epoxy enamel, varnish, epoxy thinner, spar varnish, hard finish racing bottom enamels, hull, deck and topside finishes and non-skid safety paints.

Hermes Distributing Co., 2536 Pacheco St., San Francisco 16, Calif. Monte-Cristo prevents fogging of glass and plastics.

Hooker Electrochemical Co., Durez Plastics Div., North Tonawanda, N. Y. Hetron R92 is a fire-resistant polyester resin made for the boating industry.

Houghton Laboratories, Inc., Olean, N. Y. Hysol "Epoxi Patch" repair kits packaged in two flexible tubes with correct proportions of base and hardener. For repair of metal, wood, fabric and plastic hulls.

Illinois Bronze Powder Co., Chicago, Ill. Illbronze varnish spray satin-flat and high gloss finishes.

International Paint Co., Inc., 21 West St., New York 6, N. Y. Non-reflective pastel interior enamels, transom varnishes, bottom paints and no-skid compounds. Also an assortment of engine enamel.

Ironside Mfg. Co., 31174 Dequindre, Warren, Mich. Nylox Toughy One Coat will stop leaks, fill seams or cracks and colors in just one application. Gives toughness and strength of nylon.

Juscalon, East Walpole, Mass. Juscalon acrylic plastic coatings eliminate need for yearly stripping. Provides a hard surface that waterproofs boats above and below the waterline.

E. & F. King & Co., Inc., Norwood, Mass. Permodip wood preservative, Marblehead Anti-Fouling bottom composition, and Grain Tame, plywood sealer-surfacer.

Kristal Kraft, Inc., Palmetto, Fla. Unipoxy 100 is a neutral-colored thixotropic, thin-paste adhesive for high strength, structural bonding applications. It bonds a wide variety of materials including aluminum, steel, glass, wood, plastic, masonry, and rubber.

Krylon, Inc., 18 W. Airy St., Norristown, Pa. High-Gloss and Satin-Finish All-Purpose varnish sprays, battery terminal coating protector spray, Rust Release oil and solvent spray.

H. B. Kuhls, 3rd Ave. & 65th St., Brooklyn 20, N. Y. Kuhls Elastic Products have been helping boat owners, builders, U. S. Government and many others to keep boats watertight and trim for over 71 years. Newest product is Tecstrip, for removing paints, varnishes, lacquer, shellac, and almost any synthetic coating from wood, metal, leather, canvas, and other surfaces.

Landon Products, Inc., P. O. Box 3232, El Monte, Calif. "El Pico" bilge cleaner, paint remover, magnetic tack rags, screen cleaner, brush cleaner, sandeze (eliminates sandpapering), salt and fresh water marine cleaner.

Liquid Glaze, Inc., Marine and Industrial Division, 704 Sheridan, Lansing, Mich. Skipper's Pride Fibreglaze, Paste Cleaner, Liquid Cleaner, Vinyl Chrome Gard, Paint Stripper and Plexiglass cleaner and and Convertible Top Cleaner, scratch remover.

Magic Iron Cement Co., Inc., 5403 Bower Ave., Cleveland 27, Ohio. Magic Woodblend Putty Pencil fills nail and screw holes and small cracks and remedies various wood blemishes and defects.

Marine Products, Inc., 783 Pearl Ave., Oshkosh, Wisc. Marprox Liquid Neoprene rubber-based coating adheres to unprimed aluminum, copper, iron, steel, wood, canvas, concrete and glass fiber reinforced polyester plastics, Lakerfill Plastic Compounds, and Marprox Rubber Sealers.

John W. Masury & Son, Inc., 1700 Bayard St., Baltimore 30, Md. Swedish marine paints, enamels, varnishes, primers, removers.

Metallic Coatings Corp., 919 N. Michigan Ave., Chicago 11, Ill. Coperoyd anti-fouling racing bottom coating, Coperit anti-fouling bottom coating and other metallic coating products.

Miller-Stephenson Chemical Co., 35 Day St., So. Norwalk, Conn. Marin-Epoxy products include enamels, varnish, primer for aluminum, resins, fillers, fiberglass cloth and many others.

Minit Spray Corp., P. O. Box 189, Des Plaines, Ill. Ensin marine finishes and Spraint Quick Dry paint.

Minnesota Paints, Inc., Minneapolis, Minn. Marine finishes, fiberglass boat primer, aluminum boat wash primer, copper bronze for boat bottoms, marine spar varnish for natural woodwork, hunting boat colors.

Napko Corp., 5300 Sunrise, Houston, Texas. Sea-Fast Marine Finishes for hull and topside, Sea-Fast Deck and Canvas Finish, Sea-Fast prechilled high solids varnish, Sea-Fast anti-fouling compounds in regular, vinyl and copper types, Sea-Fast wood and fiberglass primer, Sea-Fast red lead.

National Casein Co., 601-619 W. 80th St., Chicago 20, Ill.; Tyler, Tex.; and Riverton, N. J. DR powered resin glue and R3 Resorcinol resin glue.

Neehi Protective Coatings, Inc., 340 W. Hoffman Ave., Lindenhurst, N. Y. Neehi fiberglass products include Fiber-Fortified resin, super resin, epoxy resin, standard resin, patching kits, color additives, and resin cleaner.

Nemes Furniture Co., 2631 Lehmann Ct., Chicago 14, Ill. No-Mar, a clear finish coating.

Owens-Corning Fiberglas Corp., 598 Madison Ave., New York 22, N. Y. Fiberglass products of every description for use in marine application.

D. J. Peterson Co., P.O. Box 181, Sheboygan, Wisc. Poly-Aqua line of Epoxy marine finishes includes boat refinishing kit in clear or variety of colors. Price: $6.45 kit complete with one quart of finish and one pint of solvent for thinning and cleaning.

Pettit Paint Co., Belleville, N. J. Pettit's marine paint line includes paints for every boating use.

Pittsburgh Plate Glass Co., 632 Fort Duquesne Blvd., Pittsburgh, Pa. Marine finishes, Pittsburgh Marine Anti-Fouling and Anti-Corrosive paints. Waterspar enamel, spar varnish and Rinse Away paints and varnish remover.

Plastic-Kraft Corp., Oldsmar, Fla. Boatglas Resins set tack-free without oil or wax additive and require less sanding between coats. A complete line of resins, additives, clothes, tapes, fillers and other Boatglass products are offered.

Plastic Sales and Mfg. Co., 3023 McGee Trafficway, Kansas City 8, Mo. Glass-Kote boat covering kits provide stronger, maintenance free, faster, and leakproof covering for boats.

Preservative Paint Co., 5400-5410 Airport Way, Seattle 8, Wash. Paints, enamels, primers, varnishes, boottopping, cuprus preservative, filler, skid-stop and bottom finishes.

Protective Coatings, Inc., 807 N. Fremont St., Tampa, Fla. Proco Anti-Fouling coating, Proco Super Anti-Fouling coating, Proco colored Epoxy coating, Transylmarine "Vinyl-Hyde" fiberglass and vinyl boat coating kit, Transylmarine "Liqid Tile" epoxy coating, Transylmarine Liquid Neoprene and thinner and Cardoglas. Also all forms of Epoxy marine coatings and adhesives.

Protection Products Manufacturing Co., 2305 Superior Ave., Kalamazoo, Mich. Marine Type Woodlife and Stormy Weather.

Puro Chemicals, Inc., 1643 St. Clair Ave., Cleveland 14, Ohio. Puro Boat Cleaner is made in powder and liquid form priced at $1.75 per can for the powder.

Red Hand Compositions Co., Pleasure Boating Dept., One Broadway, New York 4, N. Y. Red Hand offers Fifty Bottom Paint which is anti-fouling and Red Hand Hull, Deck and Cabin Paints in full range of attractive colors.

Sav-Cote Chemical Laboratories, P. O. Box 212, Alexandria, Va. All purpose plastic finish which resists rust, salt and acid oxidation, sun effect, etc. Waterproof, leakproof, elastic and flexible. One gallon covers up to 200 sq. feet with two coats. For wood, metal, canvas, plastic, leather, etc. In colors or clear. Price, quart $3.95; gallon $14.50. Sav-Cote offers a complete line of boat coatings.

Schramm Fiberglass Products, Inc., 3010-12 W. Montrose Ave., Chicago 18, Ill. Plastishel fiberglass covering kits, polyester resins, Fybrglas repair kits and epoxy resins and adhesives, Bondzall polyester filler and solder, and Twinweld epoxy adhesive, filler and solder.

Service Industries, Chemical Products Div., 2105 E. Somerset St., Philadelphia 34, Pa. Ferox Rust Remover cleans and reclaims many rusted items and also prevents them from further rust destruction.

Stay-Tite Products Co., Inc., Cleveland 4, Ohio. Neoprene Stay-Tite All Seal, Neoprene Stay-Tite Neoprene caulking compound and Stay-Tite FAS patcher.

Steelcote Mfg. Co., 3418 Gratiot St., St. Louis 3, Mo. Steelcote Master Mariner Products include rubber enamel, Epo-Lux 150 for waterproofing, Thiocaulk for caulking, Epo-Lux 185 for storage uses, Epo-Lux 800, and Epo-Lux 100 for marine uses. Also Steelast Anti-fouling coatings.

Sudbury Laboratory, Sudbury, Mass. Bright-work finish, brush cleaner, fibreglass primer, 365 Bottom Paint, Galva-coat, liquid Aqua-clear, Aqua-Clear crystals, crystal

kleener, water stripper, raw water strainer, Sav-A-Tank cartridge, Hi-Heet fuel, bilge cleaner, boat-zoap, Aqua-shed, Barfair 77, Kleen-combustion, Free-it, and water jacket cleaner.

Surface Coating Engineers Inc., 272 Doremus Ave., Newark 5, N. J. Vinylon liquid plastic marine coatings.

Tankit Co., Dept. PB, Newark 8, N. J. North Star Cleaner cleans and polishes glass, plexiglas fiberglass, chrome, brass and copper. Price for squeeze bottle, $1.75.

Tarp-Seal Adhesives, 2555 Boston Post Rd., New York 67, N. Y. Tarp-Seal Neoprene Rubber Mastic Adhesive Sealer.

Tarr & Wonson, Ltd., Horton St., Gloucester, Mass. Gloucester Seat Jacket Paints is noted for its adhesion to wood, fiberglass, metals, and masonry.

Travaco Laboratories, 233 Condor St., East Boston 28, Mass. Marine-Tex self-hardening plastic metal for repairs to hulls, piping, fittings.

United States Plywood Corp., 55 W. 44th St., New York 36, N. Y. Royal Marine Weldwood, and Weldwood waterproof resorcinol glue.

Valspar Corp., 7 E. Lancaster Ave., Ardmore, Pa. Full line of paints, varnishes, enamels, etc., for all boating needs.

Wasco Products, Inc., Bay State Road, Cambridge 38, Mass. Material for waterproofing decks and hulls below water line. Abrasive resistant. May be painted over. Available in varying weights and rolls up to 25 yards. Also available: custom acrylic boat windshields.

The Westway Mfg. Corp., 1100 Columbia Road, Westlake, Ohio. Spin-Way is a container which makes cleaning paint brushes and rollers easy in minutes, without mess. Mechanically spins brushes in cleaner. Price, $5.95.

Wilbur & Williams Co., 650 Pleasant Street, Norwood, Mass. Marblehead Outboard Flash-Dry Boat Paint is a synthetic enamel which dries in 15 minutes and allows your boat to be launched in half an hour. $1.95 per pint.

Wilhold Products Co., Division of Acorn Adhesives Co., Inc., 678 Clover St., Los Angeles 31, Calif. Wilhold Plastic Resin Glue and Plastic Resin Modifier.

C. A. Woolsey Paint & Color Co. Inc., 205 E. 42nd St., New York 17, N. Y. "Nauticolor" colorant system, "Cawlux" marine finishes, "Vinelast" bottom paint, "MFP" catalyzed epoxy coating and "Sealux" Super Lustre.

Yale Engineering Co., 900 N. Franklin St., Chicago, Ill. Chrome refinishing kit with "Magichrome" cleaner and "Magichrome" powdered metal.

SAIL MAKERS

ALEXANDER LAMPORT & BRO.
SAIL FABRIC DIV.
55 LEONARD ST., NEW YORK, N. Y.
SAIL FABRICS
"Drisail" silicone finished, water repellent dacron; "Super-Dac," dacron sail fabric; "Zeta" nylon spinnaker fabric.

BOSTON YACHT SAIL CO.
38807 HARPER
MT. CLEMENS, MICH.
SAILS
Offers one of the largest selection of sail cloths, including Karnac, an exclusive Boston Yacht Sail Co. material.

DUPLAN CORP.
1407 BROADWAY, NEW YORK, N. Y.
SAIL FABRICS
Nylon and dacron sailcloth.

P. EVANSON BOAT CO.
4110 FREELAND AVE.
PHILADELPHIA 28, PA.
SAILS FOR CELEBRITY CLASS
Egyptian cotton. Price: main and jib, $155, main, $110, jib, $50, Genoa #1 (57 sq. ft.) $65, Genoa #2 (76 sq. ft.) $75. Custom-made cockpit cover, $50. Woven cotton, main, jib and Genoa sheets with thimbles, $6, $7, $8 respectively.

FISHER & PERNAS
MAIN ST., PORT WASHINGTON, N. Y.
SAILS
Custom made sails.

HARD SAILS, INC.
204 MAIN ST., ISLIP, N. Y.
SAILS
Custom made sails.

HATHAWAY, REISER & RAYMOND, INC.
RIVER RD., COS COB, CONN.
SAILS
Custom made sails; rigging consultants.

FRED E. HOOD
ORNE ST., MARBLEHEAD, MASS.
SAILS
Custom made sails.

HOWE & BAINBRIDGE, INC.
220 COMMERCIAL ST.
BOSTON, MASS.
SAILCLOTH
"Dynalite" dacron sailcloth.

MEL JONES THE SAILMAKER
812 W. STATE ST.
MILWAUKEE, WISC.
SAILS
Custom made sails.

LOUIS J. LARSEN
50 WARREN ST., NEW YORK, N. Y.
SAILS
Custom made sails.

MANCHESTER YACHT SAILS, INC.
P. O. BOX 203, S. DARTMOUTH, MASS.
SAILS
"BolTape" custom yacht sails.

MERRILL SAILS
DELANCO, N. J.
SAILS
Custom made sails.

MURPHY & NYE
4721 N. KEDZIE AVE., CHICAGO, ILL.
SAILS
Custom made sails.

KENNETH A. NELSON CO., INC.
4725 N. DAMEN AVE., CHICAGO, ILL.
SAILS
Custom made sails. Summer and winter suits for small boats a specialty.

RATSEY & LAPTHORN, INC.
CITY ISLAND, N. Y.
SAILS
Custom made sails.

ROLLER WIDER SPINNAKERS
RT. L, NEENAH, WISC.
SAILS
Parachute spinnakers.

WELLINGTON SEARS CO.
111 WEST 40th ST., NEW YORK, N. Y.
SAILCLOTH
Dacron sail fabric; other sail fabrics.

THURSTON SAILS
WARREN, R. I.
SAILS
Sails are made by Thurstape draft controlled sail construction method to keep tension throughout entire length of the hoist and the foot. Multiple strips of stabilized Dacron fabric are crafted to leading edge and foot of the sails, and take the place of bolt ropes.

CHARLES ULMER, INC.
CITY ISLAND, N. Y.
SAILS
Custom made sails.

UNITED STATES RUBBER CO.
MISHAWAKA, IND.
COVER FABRIC
"Fiberthin" boat cover fabric.

G. W. VALLENTINE & SON
135 CITY ISLAND AVE.
CITY ISLAND, N. Y.
SAILS
Custom made sails.

KENNETH E. WATTS
TORRANCE, CALIF.
SAILS
Custom made sails.

WILSON & SILSBY
MARBLEHEAD, MASS.
SAILS
Custom made sails.

MARINE FUELS & LUBRICANTS

Armstrong & Galbraith, Inc.
Bardahl Mfg. Corp.
Bromfield Mfg. Co.
Commercial Solvents Corp.
Continental Oil Co.
Crown Chemicals Co.
Dixson, Joseph, Crucible Co.
Esso Standard Oil Co.
Fiske Bros. Refining Co.
Freedom-Valvoline Oil Co.
Gulf Oil Corp.
Huron Industries
Kendall Refining Co.
Kiekhaefer Corp.
Koppers Co., Inc.
MacMillan Petroleum Corp.
Magnus Chemical Co.
Mill River Products
Nassau Laboratories
Otis Oil Co.
Pennsylvania Refining Co.
Pennzoil Co.
Phillips Petroleum Corp.
Pyroil Co., Inc.
Quaker State Oil Ref. Corp.
Sea Foam Petroleum Corp.
Shell Oil Co.
Sinclair Refining Co.
Skelly Oil Co.
Socony-Mobil Oil Co.
Sonneborn, L., & Sons, Inc.
Standard Oil Co.
Stay-Tite Products Co.
Sun Oil Co.
Texaco
Union Oil Co. of Calif.
Valvoline Oil Co.
White & Bagley Co.
Wolf's Head Oil Ref. Co.
Wynn Oil Co.

LATE ARRIVALS

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ANTHONY POWERCRAFT CO.
5871 FIRESTONE BLVD.
SO. GATE, CALIF.
JET-STAR 15
14'8" x 6' three-point hydroplane hull is of fiberglass and weighs 500 lbs. Features include steering and panoramic windshield. Price, $995.

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ATLANTIC MARINE IND., INC.
ARNEY'S MOUNT RD.
PEMBERTON, N. J.
NEWPORT LINE
The fiberglass constructed Newport Line ranges from the 14'7" Aqua Mate priced at $925 to the 15'11" Bay Mate priced at $1,125. Newport Runabout and Utility models in the 16' and 17' lengths are also being added to the line.

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BARNES BOAT CO.
MANCHESTER, CONN.
DOLPHIN SPORTABOUT
Overall length 15, beam 66". Aircraft type aluminum construction. Styrofoam flotation thoughout gunwales and under foredeck. Two 50" side seats in rear cockpit. Price, $860.

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OTIS C. BORUM BOATS
BOX 1164, JACKSONVILLE, FLA.
BORUM BOATS
Borum boats are available in cabin cruiser and runabout models. Mahogany construction, with varnished decks and cabins. All boats feature standard equipment usually found listed as optional.

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COMMODORE BOATS, INC.
NEW BERN, N. C.
19' SPORTSMAN
Length 19', beam 7'. The Sportsman provides maximum cockpit space, yet embodies all the requirements of comfort. All Commodore Boats are fastened for salt water using brass, bronze and copper fastenings throughout. Planking is 7/16" clear Philippine mahogany, with sealing compounds used between plank overlay. Steering wheel completely installed and wooden windshield are standard equipment along with many other items.

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DURACRAFT BOATS, INC.
MONTICELLO, ARK.
DURAGLAS FIBERGLASS BOATS
Line includes runabouts and day cruisers with integral floor assembly providing extensive flotation and hull rigidity. Models available are DuraGlas 15', in standard and custom models; DuraGlas 17 hardtop with deck access hatch and motor well and 19' DuraGlas.

DURATECH MFG. CORP.
ROUTE 202
PEEKSKILL, N. Y.
SWEET SEVENTEEN
17'4" x 85" x 44" aluminum runabout is recommended for use with motors up to 80 HP. Equipment includes cable steering, metal-framed plexiglass windshield, Duradeck, upholstered walk-through front seats and chrome deck hardware. Price, $1,199. Also available is Model S-19, 19'1" x 85", with same equipment, $1,439.

GLASSTEX CO.
6101 W. 147 ST.
TINLEY PARK, ILL.
GLASSTEX BOATS
Glasstex fiberglass runabouts are ideal for water skiing and all water sports. Cross frame construction. Fitted with safety glass windshields.

GUY LOMBARDO BOATS
27 HAYNES AVE.
NEWARK, N. J.
FIBERGLASS BOATS
The Guy Lombardo Royal Line will be offered in 12', 15', 17', 18', and 20' lengths in Tempo series models.

LARSON BOAT WORKS, INC.
LITTLE FALLS, MINN.
PLAYBOY
Length 14', beam 68½". Wt. 435 lbs. Horsepower range 18-80. Features Lapline design, adding speed and lessening spank. Sealed in double bottom cushions vibration. All hardware and lights included. Price, $825.

MAGNOLIA BOAT CO.
VICKSBURG, MISS.
BARRACUDA
Fiberglass construction, centerline length of 16'2", beam 72", hull weight 650 lbs. Transom height 16¾", priced at $1,190.

CHETEK BOAT CORP.
CHETEK, WIS.
CHETEK WOOD LAPSTRAKES
Chetek wood lapstrake boats are light, stiff, resilient, naturally buoyant, and fire resistant. Models range from the 14'3" Mam'selle priced at $495 to the Regal Contessa, 19'10", priced at $1,495.

FRED McCARTHY BOATS
ST. MICH. DRIVE
RIVERSIDE, N. J.
SEA MAC MODEL 14
New deluxe styling, red and white custom upholstery, silver edged matching red floor boards. Boat has rugged construction and high quality finish.

PENN YAN BOATS, INC.
PENN YAN, NEW YORK
OCEANIC 23
Gunwale length 23'10", overall length 22'6", beam 95", depth amidship 46", stern width 82". Complete with full floor, steering, walk-thru ventilating windshield and safe access to bow deck, stainless steel stem band and gunwale molding. Bunks on each side back of double-door mahogany faced bulkhead.

WAGEMAKER CO.
GRAND RAPIDS, MICH.
14' NANTUCKET
New 14' Nantucket of Wagemaker fiberglass Empire series features optional hardtop and new Vari-Seating which allows buyer to select almost any dedesired seating arrangement at extra cost.

WHITE CANOE CO.
OLD TOWN, ME.
WHITE RUNABOUTS
White Lapstrake Runabouts have lapped edges of the planking bedded in a waterproof resin glue. All fastenings are copper, bronze or brass. Models range from 15' runabout to 19' express cruiser.

WINNER MFG. CO.
BOX 399, TRENTON, N. J.
SUN-N-SKI
15' fiberglass runabout designed especially for water skiing. Rear seat faces aft. Motor range 10 to 70 HP, speeds over 35 mph. Standard equipment includes boarding ladder, two bow hooks bolted to gunwale at stern for ski tow lines, deck hardware, transom drain plug. Transom is designed for standard or long shaft motors.

INBOARD BOATS

ASSOCIATED NAVAL ARCHITECTS, INC.
WEST NORFOLK, VA.
24' SEA SKIFF
Wood, lapstrake full skeg construction. Power choice from 85 to 240 HP. Head, 2 berths, pilot seat. Speeds to 40 mph. Other models in 19' and 20' lengths.

BEETLE BOAT CO.
EAST GREENWICH, R. I.
BEETLE SAYONARA 33
32'10" x 11' x 2'4" fiberglass cruiser has one-piece hull, sleeps 6, has fiberglass cabin top and teak decks. It is recommended for twin screw power from 270 HP to 370 HP. Company also offers 21' and 24' models available as open bass boat, a cuddy cabin model or full cabin model.

CENTURY BOAT CO.
MANISTEE, MICH.
Freeboard: forward, 36"; aft, 27". Features stern-facing seats, table that folds off soundproof motor box, triple-braced bottom, automotive-type steering wheel, African mahogany planking, lapstrake construction, silicon-bronze fastenings, bronze propeller shaft, equipose propeller, 22 gal. gas tank, battery, lights. Available with a variety of engines from $3,870 to $4,010.

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COLONIAL BOAT DIV.
UNITED MARINE, INC.
MILLVILLE, N. J.
24' SEA SKIFF
Lapstrake hull construction. Beam 8'4". Freeboard, forward 4', aft 3'. Standard power Gray 170 HP V-8 or Chrysler 177 HP V-8, direct drive.

COMMODORE BOATS, INC.
NEW BERN, N. C.
23' SEA ROVER
Length 22'8", beam 8'1". Bottom is ⅝" 7-ply AA grade marine plywood, 2 pieces, with sealing compound used at all joints. Cabin is fully equipped. Power options, 135 to 225 HP, with speeds to 35 mph. Sea Rover is offered in an outboard model taking up to two 75 HP outboard engines.

HIGGINS, INC.
BOX 8001, NEW ORLEANS 22, LA.
PORT ROYAL
17' Port Royal runabout inboard seats six and has power options up to 109 HP, with speeds to 32 mph. Also offered is the 24' Antiqua, an inboard Sports Fisher and the Tahiti, the outboard version of the Antigua. Higgins Boats feature Polyhedral form hulls which provide smoothness and stability in rough water.

NORWALK BOAT WORKS, INC.
160 WATER ST.
SOUTH NORWALK, CONN.
NORWALK 24
Norwalk 24' features semi-vee lapstrake construction with double planked transom, dinette which sleeps two, enclosed head, deck loading ice chest, stainless fuel tank, and two hanging lockers. Speeds to 24 MPH with 110 HP Chrysler engine. Price, $4,750.

OWENS YACHT CO.
BALTIMORE 22, MD.
OWENS 27 EXPRESS CRUISER
The 27' Flagship sleeps five in large cabin with 6'5" headroom. All-metal framed ventilating windshields in both cabin and bridge and complete stainless steel galley. Fully equipped, the Deluxe Express is powered with 185 HP Flagship Marine V8 Engine. Price, $6,745.

RICHARDSON BOAT DIVISION
UNITED MARINE, INC.
NORTH TONAWANDA, N. Y.
RICHARDSON 31 EXPRESS
31' x 10'10" x 2'6" Express cruiser sleeps 6, and twin power is standard with options ranging from 109 to 225 HP each, driving through reduction V-Drives. Hydraulic controls are standard. Features include 6'2" cabin headroom, separate toilet, galley with sink, utensil racks, ice chest and alcohol stove, convertible dinette and convertible lounge. Company also offers 31 Sedan Cruiser, same dimensions and power options.

STONINGTON BOAT WORKS
STONINGTON, CONN.
STONINGTON CRUISER
Dual control, flying bridge power cruiser is a rugged, far ranging vessel laid out for complete cruising comfort and carrying enough sail to bring it home in the event of mechanical failure. The Stonington Auxiliary is available in two sizes, 37'6" and 41'8", sloop or ketch rigged. Wide variety of interior arrangements. Standard power is an Allis-Chalmers Model 273 diesel engine.

TOPPER BOAT CO.
5816 RITCHIE HWY.
BALTIMORE 25, MD.
TOPPER EXPRESS CRUISER
20'6" x 8' cruiser is powered by Volvo Aquamatic Inboard-Outboard Drive. Features include hull bottom of marine plywood, side decks, cabin sides and trim of solid mahogany and cockpit with helmsman's seat and opening flying bridge windshield. Equipment includes fully enclosed cabin, full-length bunks, dinette table, complete galley, marine toilet and sliding side windows. Price, $4,195. Company also offers similar cruiser for use with outboard power, $2,495.

SAILBOATS

GEVEKE & CO., INC.
25 BROADWAY
NEW YORK 4, N. Y.
FLYING DUTCHMAN JR.
Length 13'2", beam 5'3", sail area 100 sq. ft., sailing weight 198 lbs. Maintenance-free fiberglass construction. Gives sailing pleasure to novice and expert alike.

HENRY R. HINCKLEY & CO.
SOUTHWEST HARBOR, ME.
SOU'WESTER, JR.
LOA 30'3", LWL 22', displacement 11,000 lbs. Cockpit features fiberglass covered floor and seats, coamings Philippine mahogany, two stowage bins provided under cockpit seats for sails. Universal motor. Completely equipped.

SEAFARER FIBER GLASS YACHTS
211 EAST 38th ST.
NEW YORK 16, N. Y.
SEAFARER SWIFTSURE
33' x 22'11" x 10' x 3'6". Modern, beamy centerboarder with accommodation for six. Other models available are the 30' Tripp, 38' Javelin and the 34' Bahama.

SILHOUETTE
150 SPRING ST., NEW YORK 12, N. Y.
MARK II SILHOUETTE
17'8" x 6'7" x 2'8" cruising sloop; sleeps 2; accommodates 4 in cockpit; toilet; mast steeped in steel tabernacle; roller reefing gear; Vee bottom hull; fin keel weighing 400 lbs. Sail area 120 sq. ft., including main and working jib of Egyptian cotton with battens, jib hanks and sailbag. Materials used in construction include mahogany marine plywood, prime mahogany, white oak, bronze, stainless steel, copper nails and International Marine Paints. Price under $2,000.

WAVERIDER CORP.
250 WEST 57th ST.
NEW YORK 19, N. Y.
WAVERIDER
Built in England, the Waverider is a 16' folding catamaran, which uses a combination of Neoprene seal and hinge permitting them to be assembled or dismantled in minutes.

KIT BOATS

DOUGLAS FIR PLYWOOD ASSOC.
TACOMA 2, WASH.
BOAT PLANS
Boat plans are available for boats which are architect-designed, performance-tested and designed to be built from Exterior or Marine fir plywood. A number of plans are offered including prams, cabin cruiser and sailboats. Plans are available from lumber dealers or from company for slight charge.

F. S. FORD JR.
17852 MAUMEE RD.
GROSSE POINTE, MICH.
GREAT LAKES CLASS PLANS
The Great Lakes 36' auxiliary is available in both yawl and cutter sail plans. Features roomy cabin interior with full headroom and extra large berths.

LUGER INDUSTRIES
9200 ACCESS ROAD
MINNEAPOLIS 20, MINN.
LUGER BOATS
Luger Fiberglass boats are sold K-D, ready for quick, easy assembly of the one-piece molded fiberglass deck and hull units. Requires no hand finishing. Assembly is made simple. Permanent bonding and fastening of the molded one-piece deck unit to the hull unit is accomplished by use of special fiberglass bonding kit-included with every boat. Number of models available.

SOCK BOAT CORP.
WEST ROGUES PATH
COLD SPRING HARBOR, L. I., N. Y.
SOCK BOATS
Sock boats offer an inexpensive way for anyone to build their own all-fiberglass boat. A sock is pulled over a corrugated cardboard form and fiberglass then applied. Can be built in 20 hours over 4 days. A 15'3" model is available priced at $395, complete with steering wheel, gunwale rub rail and 52" wraparound windshield.

U-MAK-IT PRODUCTS
DE LAND, FLA.
V-180 FLYING CLOUD
18' x 6' x 10" cruiser for outboard or inboard installations. Planked with ⅜" marine plywood over 8 hardwood frames. Has sleeping accommodations for two, plus room for a head.

ENGINE ACCESSORIES

JOHN W. HOBBS CORP.
DIV. OF STEWART-WARNER CORP.
YALE BLVD. & ASH ST.
SPRINGFIELD, ILL.
MARINE HOUR METER
Hobb's marine hour meter can be used on any inboard engine with battery ignition and can also be installed on any outboard motor equipped with a battery start. Available in 6 or 12 volt models. It provides accurate record of hours of use and tells when maintenance is due and can be used to determine fuel consumption.

INTERNATIONAL NICKEL CO.
67 WALL ST., NEW YORK 5, N. Y.
NI-BRAL PROPELLERS
Ni-Bral Propellers are made of a special nickel-aluminum bronze alloy which resist cavitation and erosion and operate in salt, debris and silt laden waters. Boat owners can order Ni-Bral propellers through their boat yard or boat manufacturer.

LEECE-NEVILLE CO.
1374 EAST 51st ST.
CLEVELAND 3, OHIO
ELECTRICAL EQUIPMENT
Leece-Neville Co. manufacture a complete line of alternator-rectifier systems, generators, motors and voltage regulators for marine use.

LESNOR-MAEHR MARINE CO.
118 CHERRY LANE
FLORAL PARK, L. I., N. Y.
VARIABLE-PITCH PROPELLER
The Multi-Pitch provides seven pitch settings in each propeller. The Variable-pitch outboard propellers will fit most makes of engines.

ALVA T. SMITH CO.
631 E. CENTER ST.
MILWAUKEE, WIS.
GASOLINE CONTAINERS
Cruise-Rite gasoline containers designed to fit all outboard motor hulls. 7" in length, three fittings are either flush or recessed to permit installation in a greater number of positions regardless of the make of the boat. Corrugated top and bottom, available at marine dealers everywhere in three sizes: 12-, 18-, and 24-gallons (plus oil capacity). The models retail, respectively, at $39.95, $49.95 and $59.95.

ANCHORS

DANFORTH ANCHORS
192 MIDDLE ST.
PORTLAND, ME.
DANFORTH LIGHTWEIGHT TYPE ANCHORS
Full line of lightweight anchors in 39 sizes from 2½ to 20,000 lbs. Smaller sizes made of alloy steel and larger sizes of cast steel. Also available: mooring anchors, anchor chocks, stowaway anchor holders, and other anchors and products.

AIR CRUISERS DIVISION
GARRETT CORP.
BOX 180, BEL MAR, N. J.
NORTHILL ANCHORS
Northill anchors are available in 3, 5, 10, 24, 40, 59, and 91 lbs. sizes. Made of Ductilon, high tensile alloy steel.

GRIFFITH RUBBER MILLS
2439 N.W. 22nd AVE.
PORTLAND 10, ORE.
MARINE RUBBER PRODUCTS
Included in the Griffith Marine Line are Wise Pneumatic fenders, step plates, wet mufflers, transom pads, motor pads, rub strips, deck mats, anchor snubbers and many other rubber products.

DUVAL INDUSTRIES
12 ARGYLE ST.
WINTHROP 52, MASS.
DUVAL BUOYS
Duval Buoys are made of Dylite, a durable plastic. Extra buoyant and never get waterlogged. Withstands shock. Number of models available.

PUMPS

GORMAN-RUPP IND., INC.
HINES AVE, BELLVILLE, OHIO
1606-M & 1612-M
FRESH WATER PUMPS
Centrifugal pump is available with either 6 or 12 volt motor and may be used with any existing faucet or connected by a rubber hose to tubing and operated with snap or rotary switch. Pump housing is of non-porous, non-corrosive smooth rigid plastic.

SUTTON MFG. CORP.
112 W. WILSON AVE.
NORFOLK 10, VA.
BILGE PUMP
Model LPA submersible bilge pump is less than 4" high and can be placed in any convenient location. All bronze construction. Automatically activated. Also included in Sutton line are pressure water systems, fans, bilge water indicator and number of all-purpose switches.

NAVIGATION ACCESSORIES

ALGONAC FOUNDRY CO.
9300 STONE ST.
ALGONAC, MICH.
HI-LITES
A complete line of marine lights are offered. A new non-magnetic steerer for outboards has also been announced. Hard chromed outboard gas tank filler cap is also available.

AUDIO EQUIPMENT CO.
75 HARBOR RD.
PORT WASHINGTON, L. I., N. Y.
AUDIO HAILER
Effective overwater range up to ¾ miles. Weight 5¾ lbs. New transistor powered model has 3-stage amplifier and uses four power transistors and hermetically sealed transformers. Runs on standard flashlight cells. Wholly self-contained. Pistol grip for one-hand operation. Weatherproof 2-tone green finish. Price, complete with batteries, $99.50.

SWIFT & ANDERSON, INC.
BOSTON 25, MASS.
NAVIGATION AIDS
Products offered include binoculars, weather instruments, telescopes, magnifiers and others. Featured is the Fishing Barometer priced at about $7.50.

VOCALINE CO.
OF AMERICA, INC.
OLD SAYBROOK, CONN.
JRC-425
For short range communications from ship to ship and ship to shore. May be used as mobile units in conjunction with the CUB-1/MT-1 units. Complete with stainless steel microphone with push-button control and earphone jack, AC and DC line cords, and plug-in antenna. Operates on 465 mc (citizens band), FCC approved, no installation or tuning required, incorporates a loudspeaker. Operates on 115 volt AC and 6 volt DC or 115 volt AC and 12 volt DC. Also available: Model JRC-400, a similar model. Full line of accessories available including carrying cases, batteries, extension antennas, and marine safety switches with corrosion-proof construction and lifetime, self-wiping contacts.

MISCELLANEOUS

AIR LIFT CO.
LANSING, MICH.
AIR LIFT AIR SPRINGS
Tough, butyl cylinders slip inside rear coil springs or come with own coils for leaf spring cars. Inflated with air, they raise the rear end to a smooth, safe riding level. Easily installed.

AMERICAN BOSCH
SPRINGFIELD, MASS.
WINDSHIELD WIPERS
Especially designed for marine use. Protected from rain, spray, and dampness by a one-piece, mahogany colored, molded-rubber jacket encasing the wiper motor. Constant-speed electric motor operates instantly on 6, 12, or 24 volt systems for full-time visibility. Only one hole needed for mounting. Kit includes motor, waterproof jacket, mounting parts, control switch, and instructions; blades and arm separate.

ANCARROW MARINE, INC.
RICHMOND, VA.
CONSUL
20' boat will accommodate engines up to 470 HP, giving speeds in the 70's. Standard models have engines ranging from 225 HP to 325 HP, with corresponding speeds 53 to 63 mph. Features include upholstered cockpit and safety glass windshield. Other runabouts offered include a 20' Gladiator, which will seat up to 9 persons.

CALCINATOR CORP.
28th & WATER STS.
BAY CITY, MICH.
SEA-CAL TRAILERS
Expandable trailers are available in B-500 model which will handle boats from 15' to 23' with load carrying capacity to 2,400 lbs. Model T-400 handles boats from 14' to 21' with load capacity to 1,800 lbs. Tandem wheels can also be bolted into position.

CASTRO CONVERTIBLES
2860 N. FEDERAL HWY.
FORT LAUDERDALE, FLA.
CASTRO'S SPACESAVERS
Castro's sea-worthy convertibles help give your boat the spaciousness of a larger cruiser. Designed for comfort and beauty.

CENTRAL MACHINE WORKS
1250 CENTRAL AVE.
MINNEAPOLIS, MINN.
SPRINGBOARD
Perma-D Springboard bolts firmly to docks, floats, house and pontoon boats and even decks of cruiser. Features dual, adjustable horizontal springs.

COAST CANVAS CO.
3304 BRIDGE AVE.
POINT PLEASANT, N. J.
AIR-FLO TOPS
A built-in air scoop springs open to provide comfortable air-cooling while in motion, air circulation when docked. Fiberglass screen keeps out insects. Watertight when closed.

DICO CO.
200 S. W. 16 ST.
DES MOINES 5, IOWA
TRAILER BRAKES
Brake system on trailer is entirely independent of the car brake system and operates with the surge or push of the trailer against the automobile. This controlled braking is accomplished by an actuator mechanism installed in the tongue of the trailer.

DUPONT, INC.
PATTERSON, LA.
SPORT FISHERMAN
32' Safticraft Sport Fisherman has power options to 450 HP, provides speeds to 34 mph. plus. Interior of mahogany, sleeps 4, has spacious fishing and living areas. 6 sleeper also available.

DYNAMIC DEVELOPMENTS
DIV. OF GRUMMAN AIRCRAFT
MIDWAY, BABYLON, L. I., N. Y.
SEA WINGS
Sea Wings are Lightweight hydrofoils of a new, improved patent design made of Reynolds aluminum. Available in a do-it-yourself kit and priced about $390.

ELECTRIC SERVICES SYSTEMS
1360 QUINCY ST.
MINNEAPOLIS 13, MINN.
BATTERY CHARGER
Features dual charging rate and automatic switch. To recharge a weak battery the user sets a timer which automatically switches to slow, holding rate when battery is fully charged. Available in 6 and 12 volt models.

LIGGETT SUPPLY & EQUIP. CO.
ELKHART, IND.
DEXTER TRAILERS.
Liggett offers a complete line of Dexter Ready-Rig Boat Trailers with facilities to handle most boats. Available in a number of colors. Note for roadability and ease of handling.

MARINE MANIFOLD CORP.
146 MOTT ST., OCEANSIDE, N. Y.
MANIFOLDS
Specialize in manufacture of copper water jacketed exhaust manifolds. Also custom makes corrosion resistant pipes, goose necks, elbows, "U" bends and headers.

PERFECT CIRCLE
HAGERSTOWN, IND.
PISTON RINGS
Perfect Circle Piston Rings are designed specifically for each make and model outboard engine. Provides sustained power and long life.

SAGEN BOAT HOIST CO.
WEEDSPORT, N. Y.
ELEVATOR BOAT HOISTS
Sagen Elevator Boat Hoists are available in 1,000 and 2,500 lbs. capacities. Hand operated or motorized. Heavy metal construction. Chocks or bunks for individual hulls can easily be added.

ULLMAN DEVICES CORP.
ROUTE 7
RIDGEFIELD, CONN.
VEPO
Vepo is a new product engineered to prevent rust and corrosion in motors. Meets Govt. military specifications for rust preventatives.

PAINTS & SEALERS

Ferro Corp., Fiber Glass Division, Nashville 11, Tenn. Fiberglass reinforcements, colors and gel coats for the boating industry.

Benjamin Moore & Co., 511 Canal St., New York 13, N. Y. A diversified line of marine and boat finishes has been introduced including paints, varnishes, and enamels designed to protect and enhance the appearance of all craft.

Wilson-Imperial Co., 133 Chestnut, Newark 5, N. J. Wonder Paint Remover washes off with water. Non-flammable. Clings to upright surfaces. Harmless to wood, metal, canvas and hands.

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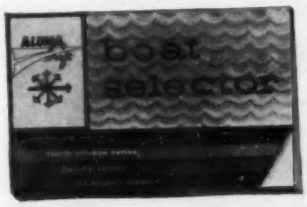

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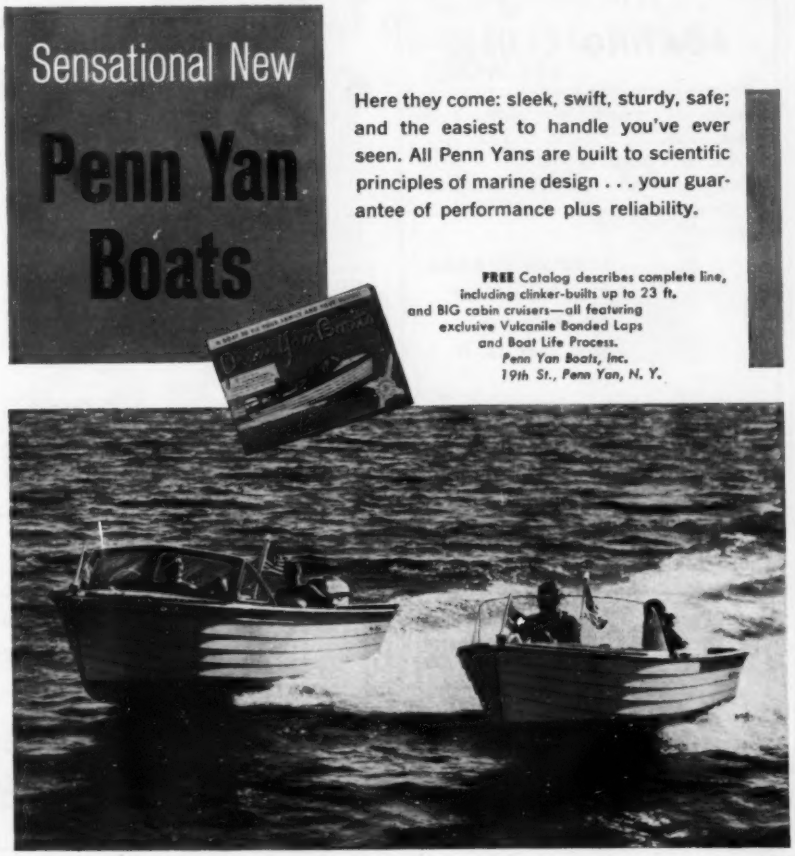

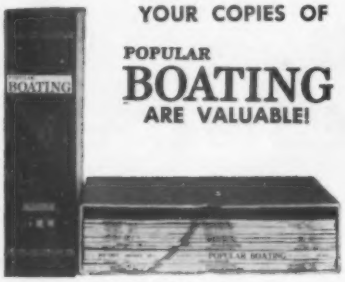

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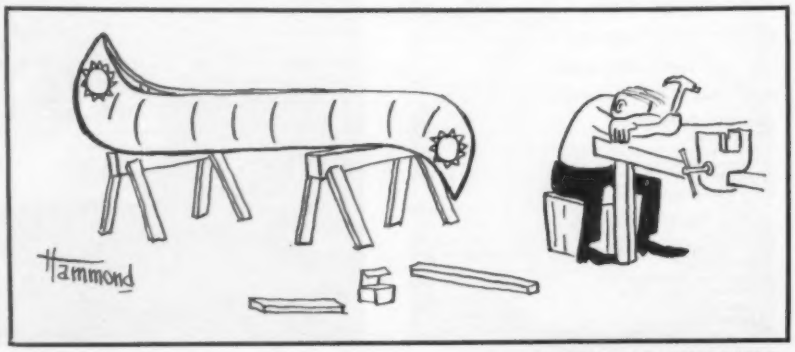

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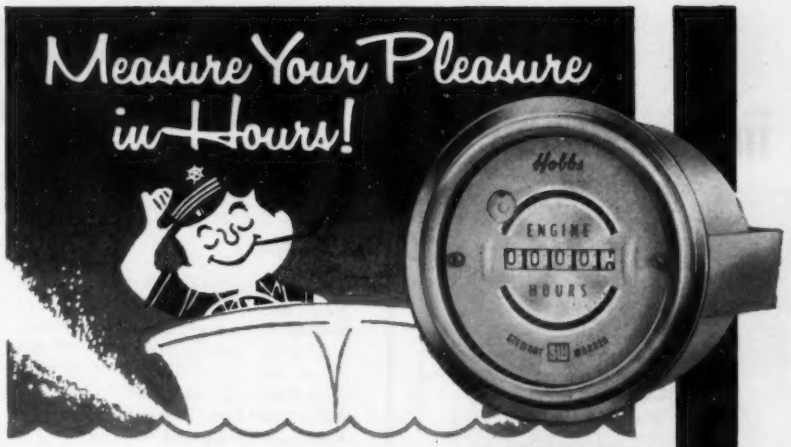

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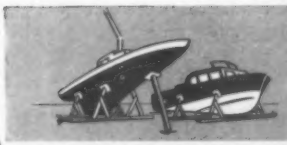

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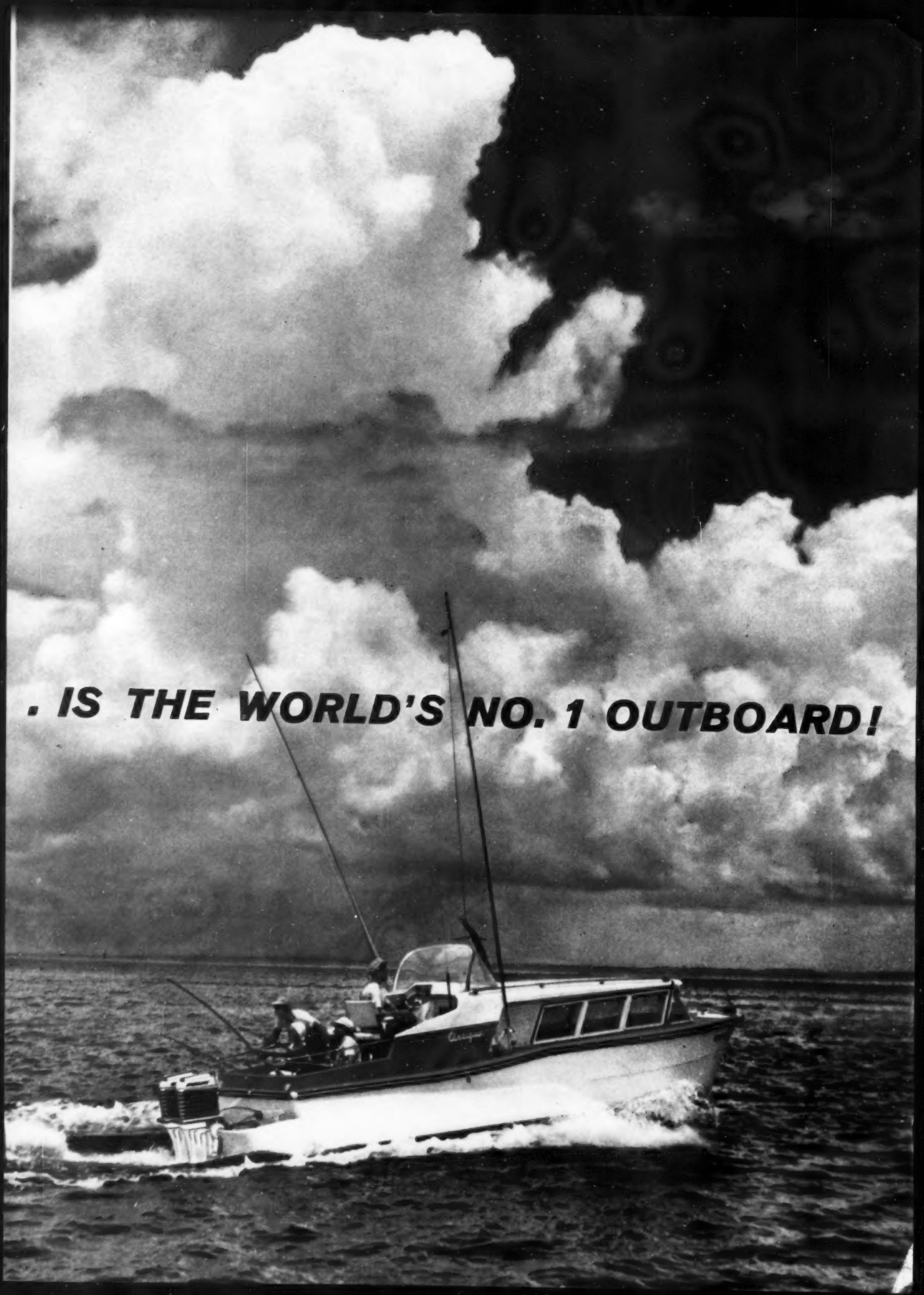
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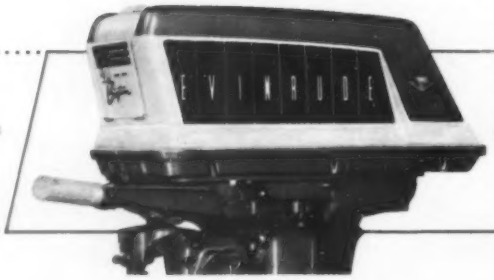

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